

**Replies to initial written questions raised by Finance Committee Members in examining the
Estimates of Expenditure 2005-06**

Director of Bureau: Secretary for Environment, Transport and Works

Session No: 19

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Examination of Estimates of Expenditure 2005-06

Reply Serial No.

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

ETWB(W)001

Question Serial No.

0335

Head : 159 Government Secretariat: Environment, Transport and Works Bureau (Works Branch) Subhead (No. & title) :

Programme : (2) Water Supply

Controlling Officer: Permanent Secretary for the Environment, Transport and Works (Works)

Bureau Secretary : Secretary for the Environment, Transport and Works

Question :

As regards Matters Requiring Special Attention in 2005-06 in paragraph 6 of the above Programme, please elaborate on -

- (a) the details of the long-term strategy in Total Water Management;
- (b) any other measures to enhance the efficiency of water supply services.

Asked by : Hon. LEE Wing-tat

Reply :

- (a) The Administration has adopted a two-pronged approach in Total Water Management (TWM) aiming at conservation of fresh water resources and long-term protection of marine water environment. Sustained efforts such as reduction of leakage in the water distribution networks, publicity and education programmes, tiered domestic water tariff structure and expanded use of salt water for toilet flushing will help to contain the growth in demand for fresh water. More stringent control will be exercised in parallel on the protection of local water gathering grounds including catchment areas, natural streams and rivers, while actions are in hand to explore new water resources through pilot projects and larger-scale demonstration schemes on desalination and water recycling. On the latter, a pilot desalination plant study as well as two reclaimed water reuse projects at Ngong Ping and Shek Wu Hui currently under different stages of implementation will provide useful input in mapping out an overall TWM strategy for Hong Kong.

- (b) Other measures to enhance efficiency of water supply services include -
- (i) speeding up of the water mains rehabilitation and replacement programme to minimize supply interruption due to main bursts;
 - (ii) pressure management in the water supply and distribution systems to reduce leakage;
 - (iii) proactive leakage detection by advanced electronic equipment to allow early isolation and repair/replacement of leaking water mains;
 - (iv) regular opinion surveys to assess customer needs and expectations for guidance of resource deployment;
 - (v) application of information technologies to improve customer data management; and
 - (vi) wider usage of internet services for delivery of customer services.

Signature: _____

Name in block letters: Clement Cheung

Post Title: Permanent Secretary for the
Environment, Transport and Works
(Works) (Ag)

Date: 7 April 2005

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

ETWB(W)002

Question Serial No.

0336

Head: 159 Government Secretariat: Environment,
Transport and Works Bureau
(Works Branch)

Subhead(No. & title):

Programme: (3) Intra-Governmental Services

Controlling Officer: Permanent Secretary for the Environment, Transport and Works
(Works)

Director of Bureau: Secretary for the Environment, Transport and Works

Question:

Regarding paragraph 9 of the Matters Requiring Special Attention in 2005–06, please give an account of “promote the wider use of alternative procurement approaches in public works projects”.

Asked by: Hon. LEE Wing-tat

Reply:

Pursuance to recommendations made by the Construction Industry Review Committee, the Bureau has completed a study on “Alternative Procurement Approaches for Public Works Projects” and issued a reference guide to assist works departments in employing a more rational and systematic approach when selecting procurement approaches and associated project delivery techniques. In brief, the departments will need to consider the following procurement options -

- Traditional design, bid and construct approach
- Design and construct approach
- Design, construct and operate approach
- Finance, design, construct and operate approach.

In conjunction with a chosen approach, different management tools and techniques have been adopted in the construction industry to improve the construction process. The guidelines help to classify these project delivery techniques into various categories including partnering, value management, risk management and alternative dispute resolution.

In an effort to promote the wider use of value engineering, we have introduced special contract provisions so that alternative designs could be dealt with in an expedient manner and cost savings, if any, could be shared with the contractor. In addition, we have asked works departments to actively consider inviting alternative designs during the tender stage.

The Bureau has also strongly advocated non-contractual partnering by adopting it in over 30 public works contracts thus far. As the next step, we are looking into contractual partnering by making use of the New Civil Engineering Contract, which has been developed with proven success in the United Kingdom.

Signature _____

Name in block letters Clement Cheung

Post Title Permanent Secretary for the
Environment, Transport and
Works (Works) (Ag)

Date 8 April 2005

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)003

Question Serial No.

0337

Head: 159 Government Secretariat: Environment,
Transport and Works Bureau
(Works Branch)

Subhead(No. & title):

Programme: (3) Intra-Governmental Services

Controlling Officer: Permanent Secretary for the Environment, Transport and Works (Works)

Director of Bureau: Secretary for the Environment, Transport and Works

Question:

According to page 21 of Appendix B of the 2005-06 Budget Speech, there is a 13.8% decrease in real terms in the total public expenditure on infrastructure for 2005-06 over the 2004-05 original estimate. May the Government explain the reasons for the substantial decrease in the estimated public expenditure on infrastructure?

Asked by: Hon. CHAN Wai-yip, Albert

Reply:

The group classified as “infrastructure” comprises both operating and capital expenditures covering –

- (a) policy area 21: transport
- (b) policy area 22: building, lands and planning; and
- (c) policy area 24: water supply

As regards (a) and (b), the decrease in estimated expenditure is mainly due to –

- (i) progressive completion of some mega capital works projects, such as the Hong Kong-Shenzhen Western Corridor, Deep Bay Link, widening of Yuen Long Highway between Lam Tei and Shap Pat Heung Interchange, infrastructure for the Hong Kong Disneyland and engineering works for the back up area to the Container Terminal No. 9, all of which were at the peak of their construction activities in 2004-05;
- (ii) rising public aspiration for more consultation/participation in the planning and implementation of projects and the review on some planned projects, such as Kai Tak Development, Wanchai Development II have deferred the construction programmes originally scheduled for 2005-06; and
- (iii) other mega projects in the planning stage including reconstruction and improvement of Tuen Mun Highway as well as a proposed road to connect Hong Kong – Zhuhai – Macao Bridge and North Lantau Highway will only commence construction and start to incur expenditure after 2005-06.

As regards (c), there is a slight decrease in the estimated public expenditure due to efficiency savings and substantial completion in 2004-05 of a one-off computerisation project in WSD for the improvement of its customer and billing services.

Signature _____

Name in block letters Clement Cheung

Post Title Permanent Secretary for the
Environment, Transport and
Works (Works) (Ag)

Date April 2005

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)004

Question Serial No.

1431

Head : 159 Government Secretariat: Environment,
Transport and Works Bureau
(Works Branch) Subhead : 700 General
Non-recurrent

Programme : (3) Intra-governmental services

Controlling Officer : Permanent Secretary for the Environment, Transport and Works
(Works)

Director of Bureau : Secretary for the Environment, Transport and Works

Question :

As indicated in items 450, 472 and 473, the Administration will set up a Construction Workers Registration Authority. Please provide details of the plans. Besides, when will the Authority commence its operation? What is its estimated establishment and how much is the estimated operating expenditure?

Asked by : Hon. WONG Kwok-hing

Reply :

Following enactment of the Construction Workers Registration Ordinance (Cap.583) in July 2004, the Construction Workers Registration Authority (CWRA) was formally established on 18 September 2004 and appointed the Construction Industry Training Authority as its Registrar to undertake various administrative tasks.

Registration for construction workers is planned to start at the end of 2005 and complete within about eight months, after which the Government will commence relevant provisions in the Ordinance governing prohibition of unregistered workers from carrying out construction work on construction sites. Other preparations such as acquisition of computerized registration management system, formulation of the specified training courses and office decoration are being carried out in parallel by CWRA.

The secretariat of CWRA will be supported by a team of around 10 staff. The total annual operating expenditure of CWRA is about \$18 million, to be funded by a new levy imposed upon construction operations as well as income derived from registration and renewal fees.

Signature	_____
Name in block letters	<u>Clement Cheung</u>
Post Title	<u>Permanent Secretary for the Environment, Transport and Works (Works) (Ag)</u>
Date	<u>8 April 2005</u>

Reply Serial No.

ETWB(W)005

Examination of Estimates of Expenditure 2005-06

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Question Serial No.

0102

Head : 25 – Architectural Services Department Subhead :

Programme : (1) – Monitoring and Advisory Services
 (3) – Facilities Development

Controlling Officer : Director of Architectural Services

Director of Bureau : Secretary for the Environment, Transport and Works

Question : One of the Department's priorities in 2005-06 is to "further enhance its building authority role for government buildings, resulting from more outsourcing of new projects" :

- (a) What are the number, and total value, of projects that were outsourced respectively in 2002-03, 2003-04 and 2004-05, and what are the estimated number and value of outsourced projects to be launched in 2005-06?
- (b) What measures will the Department adopt to further improve its efficiency in the processing of outsourcing projects? In particular, how will it improve its performance in meeting the targets of vetting budget and design, tender documents, and tender recommendations? Will it consider lowering the approved time scale for vetting tender recommendations (currently 14 days), considering that it has achieved a 100% completion rate in both 2003 and 2004?
- (c) Currently about 82% of projects can be completed within the approved time scale. What will the Department do to ensure that more projects will be completed according to schedule?

Asked by : Hon. SHEK Lai-him, Abraham

Reply : (a) The actual number and value of outsourced projects in 2002-03, 2003-04 and 2004-05 are:

Year	Total number of projects outsourced	Total value of projects outsourced (\$ billion)
2002-03	122	36.4
2003-04	140	33.2
2004-05	145	27.5

The estimated number and value of outsourced projects in 2005-06 are 127 and \$23.0 billion respectively.

- (b) To enhance efficiency in processing outsourcing projects, the Department has reviewed and streamlined its consultant selection process by making use of standardized outsourcing documents, running training modules for staff and consultants, as well as collecting feedback from the professional institutes. Furthermore, the Department has employed term consultants so as to speed up the handling of minor works projects and packaged medium size projects in groups for invitation of consultancies.

In addition, for subvented projects funded by the Government and carried out by Non Government Organisations (NGO), the Department will improve its performance in meeting targets by encouraging parallel documentary submission and processing whereby consultants are not compelled to route through the NGO and subventing government department involved.

The Department will consider further reducing the time scale for vetting tender recommendations taking into account the actual performance in 2005.

- (c) To achieve project completion within the approved time scale, the Department has taken steps to select only those contractors with a proven track record in government projects by using the marking scheme or formula approach during tender assessment. To this end, the contractors' performance index is being adopted as one of the key assessment criteria.

In addition, the Department and its consultants will closely monitor the performance of contractors and progress on site, critically examine the work programmes and sequence as well as speedily resolve problems which might impact on the timing for project completion.

Signature _____

Name in block letters C. H. YUE

Post Title Director of Architectural Services

Date 8 April 2005

The titles and ranks of the 73 posts to be deleted in 2005-06 :**Programme 2**

Title and rank	No.
Maintenance Surveyor	1
Building Services Engineer/ Assistant Building Services Engineer	1
Principal Technical Officer (Architectural)	1
Senior Survey Officer (Quantity)	1
Senior Technical Officer (Geotechnical)	1
Technical Officer/ Technical Officer Trainee (Architectural)	2
Chief Technical Officer (Building)	1
Clerk of Works	1
Assistant Clerk of Works	1
Building Services Inspector	1
Assistant Building Services Inspector	1
Works Supervisor I (Building)	1
Assistant Supplies Officer	1
Workman I	1
Workman II	1
Total:	16

Programme 3

Title and rank	No.
Senior Architect	3
Senior Quantity Surveyor	1
Senior Structural Engineer	2
Senior Building Services Engineer	1
Senior Geotechnical Engineer	1
Architect/ Assistant Architect	2
Quantity Surveyor/ Assistant Quantity Surveyor	6
Structural Engineer/ Assistant Structural Engineer	1
Building Services Engineer/ Assistant Building Services Engineer	1
Electrical & Mechanical Engineer/ Assistant Electrical & Mechanical Engineer	1
Senior Technical Officer (Architectural)	1
Senior Technical Officer (Structural)	3
Senior Technical Officer (Building Services)	1
Senior Survey Officer (Quantity)	1
Technical Officer/ Technical Officer Trainee (Architectural)	3
Technical Officer/ Technical Officer Trainee (Structural)	2
Technical Officer/ Technical Officer Trainee (Building Services)	3
Survey Officer/ Survey Officer Trainee (Quantity)	2
Chief Technical Officer (Building)	2
Senior Clerk of Works	1
Clerk of Works	9
Works Supervisor I (Building Services)	3
Works Supervisor II (Building Services)	1
Clerical Officer	1
Assistant Clerical Officer	2
Clerical Assistant	3
Total:	57

Reply Serial No.

ETWB(W)007

Examination of Estimates of Expenditure 2005-06

Question Serial No.

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

0407

Head : 25 – Architectural Services Department Subhead :

Programme : (1) – Monitoring and Advisory Services

Controlling Officer : Director of Architectural Services

Director of Bureau : Secretary for the Environment, Transport and Works

Question : Under “Matters Requiring Special Attention in 2005-06”, the Department indicates that -

- a) it will implement the “Green Contractor” Award Scheme. Please give a detailed introduction of its contents and the expenditure involved.
- b) it will further enhance its building authority role for government buildings. Please tell us the specific measures and the expenditure involved.

Asked by : Hon. LEE Wing-tat

Reply :

- a) The “Green Contractor” Award Scheme is intended as a means to encourage continuous improvement of environmental performance at construction sites through reminding contractors of how they could contribute towards environmental protection, such as by taking measures to reduce air, noise and water pollution as well as construction waste. Each year, we select contractors with the best environmental performance and present them with “Green Contractor” Awards comprising plaques and certificates. The expenditure involved is minimal.
- b) An independent Statutory Compliance Checking Unit (SCCU) has been established within the Department to take up the “Building Authority” role for building works on government land, covering both in-house and outsourced projects. This is meant to ensure strict compliance with safety and public health standards under the Buildings Ordinance as well as its subsidiary regulations. Proposals submitted to SCCU at the planning stage are processed by a checking system equivalent to that practised by the Buildings Department while for the construction stage, independent site audits are carried out by SCCU prior to confirming acceptance of all completed building works.

Since the SCCU is an in-house establishment, no additional expenditure is involved.

Signature _____

Name in block letters _____ C. H. YUE

Post Title _____ Director of Architectural Services

Date _____ 8 April 2005

Reply Serial No.

ETWB(W)008

Examination of Estimates of Expenditure 2005-06

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Question Serial No.

0408

Head : 25 – Architectural Services Department Subhead :

Programme : (3) – Facilities Development

Controlling Officer : Director of Architectural Services

Director of Bureau : Secretary for the Environment, Transport and Works

Question : In paragraph 16, the Department sets the target of completing projects within the approved time scale for 2005 at 100%. However, the rates of completing projects within the approved time scale in 2003 and 2004 were only 83.7% and 82.4% respectively. Please explain how the target of 100% can be achieved in 2005.

Asked by : Hon. LEE Wing-tat

Reply : To achieve project completion within the approved time scale, the Department has taken steps to select only those contractors with a proven track record in government projects by using the marking scheme or formula approach during tender assessment. To this end, the contractors' performance index is being adopted as one of the key assessment criteria.

In addition, the Department and its consultants will closely monitor the performance of contractors and progress on site, critically examine the work programme and sequence, as well as speedily resolve problems which might impact on the timing for project completion.

Signature _____

Name in block letters _____ C. H. YUE

Post Title _____ Director of Architectural Services

Date _____ 8 April 2005

Reply Serial No.

ETWB(W)009

Examination of Estimates of Expenditure 2005-06

Question Serial No.

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

0409

Head : 25 – Architectural Services Department Subhead :

Programme : (3) – Facilities Development

Controlling Officer : Director of Architectural Services

Director of Bureau : Secretary for the Environment, Transport and Works

Question : Regarding paragraph 17 under “Matters Requiring Special Attention in 2005-06”,

- a) please explain what the Architectural Services Department will do to enhance its building authority role for both in-house and outsourced projects to ensure their compliance with the relevant statutory requirements.
- b) please give a detailed introduction of “value management techniques” and tell us the criteria for selecting projects for which value management techniques will be implemented.

Asked by : Hon. LEE Wing-tat

Reply : a) An independent Statutory Compliance Checking Unit (SCCU) has been established within the Department to take up the “Building Authority” role for building works on government land, covering both in-house and outsourced projects. This is meant to ensure strict compliance with safety and public health standards under the Buildings Ordinance as well as its subsidiary regulations. Proposals submitted to SCCU at the planning stage are processed by a checking system equivalent to that practised by the Buildings Department while for the construction stage, independent site audits are carried out by SCCU prior to confirming acceptance of all completed building works.

b) Value management is a common tool to ensure cost-effectiveness in project delivery. Although mainly used in the planning stage, it is equally applicable at other stages of a project cycle. In general, the scope of value management studies may cover -

- Define service requirements
- Review project brief
- Identify means of project delivery
- Assess and evaluate alternative options
- Resolve complex problems

In view of the potential benefits and relatively low expenditure involved, value management studies will normally be carried out for major projects with an estimated cost exceeding \$200 million.

Signature _____

Name in block letters _____ C. H. YUE

Post Title _____ Director of Architectural Services

Date _____ 8 April 2005

Reply Serial No.

ETWB(W)010

Examination of Estimates of Expenditure 2005-06

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Question Serial No.

1445

Head : 25 – Architectural Services Department Subhead :

Programme : (3) – Facilities Development

Controlling Officer : Director of Architectural Services

Director of Bureau : Secretary for the Environment, Transport and Works

Question : For the deletion of 57 posts under Programme (3) in 2005-06, please inform this Council :

- a) the ranks of the posts to be deleted;
- b) the reasons for the deletion of posts;
- c) the anticipated savings; and
- d) the arrangements for handling the work as a result of the deletion of posts.

Asked by : Hon. WONG Kwok-hing

- Reply :
- a) The ranks of the 57 posts to be deleted in 2005-06 are listed in the Appendix.
 - b) The deletion of 57 posts under Programme (3) is in line with the Department's re-engineering programme.
 - c) The savings in notional annual mid-point salary cost arising from the deletion of 57 posts are \$24.1 million.
 - d) The original workload of these posts will be coped with effectively by outsourcing professional and technical services to consultants for the design, contract administration and site supervision of new government building projects.

Signature _____

Name in block letters C. H. YUE

Post Title Director of Architectural Services

Date 8 April 2005

Breakdown of the 57 posts to be deleted under Programme (3) - Facilities Development

Rank	No. of posts to be deleted
Senior Architect	3
Senior Quantity Surveyor	1
Senior Structural Engineer	2
Senior Building Services Engineer	1
Senior Geotechnical Engineer	1
Architect/ Assistant Architect	2
Quantity Surveyor/ Assistant Quantity Surveyor	6
Structural Engineer/ Assistant Structural Engineer	1
Building Services Engineer/ Assistant Building Services Engineer	1
Electrical & Mechanical Engineer/ Assistant Electrical & Mechanical Engineer	1
Senior Technical Officer (Architectural)	1
Senior Technical Officer (Structural)	3
Senior Technical Officer (Building Services)	1
Senior Survey Officer (Quantity)	1
Technical Officer/ Technical Officer Trainee (Architectural)	3
Technical Officer/ Technical Officer Trainee (Structural)	2
Technical Officer/ Technical Officer Trainee (Building Services)	3
Survey Officer/ Survey Officer Trainee (Quantity)	2
Chief Technical Officer (Building)	2
Senior Clerk of Works	1
Clerk of Works	9
Works Supervisor I (Building Services)	3
Works Supervisor II (Building Services)	1
Clerical Officer	1
Assistant Clerical Officer	2
Clerical Assistant	3
Total:	57

Reply Serial No.

ETWB(W)011

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Question Serial No.

0429

Head : 33 Civil Engineering and Development Department Subhead :

Programme : All

Controlling Officer : Director of Civil Engineering and Development

Director of Bureau : Secretary for the Environment, Transport and Works

Question :

In respect of the studies to be conducted/conducted by the Department in 2005-06 and 2004-05, please give the following details -

- (a) The theme, purpose and details of each study;
- (b) How many of these studies were conducted by the consultants? What were the reasons to employ consultants for these studies?
- (c) What was the estimated expenditure of each study?

Asked by : Hon. LEONG Kah-kit, Alan

Reply :

In 2004-05 and 2005-06, we conducted and will continue to conduct three studies with funds under Head 33, details of which are given below –

No.	Theme, Purpose and Details of Study	Reasons for Employing Consultants	Estimated Total Cost (\$)	Expenditure in 2004-05 (\$)	Expenditure in 2005-06 (\$)
1	The study aims to enhance geotechnical guidance on the design and construction of soil nails for slope stabilisation works through numerical/laboratory testings, design methodology reviews, field trials on new construction and quality control techniques, as well as preparation of guidance documents.	We have engaged local universities to undertake laboratory testing on the behaviour of soil-nailed slopes using specialised testing equipment which are not available in the Department.	550,000	350,000	200,000

No.	Theme, Purpose and Details of Study	Reasons for Employing Consultants	Estimated Total Cost (\$)	Expenditure in 2004-05 (\$)	Expenditure in 2005-06 (\$)
2	The study aims to carry out environmental monitoring of uncontaminated mud disposal sites at South of Cheung Chau and East of Ninepins through water quality monitoring, bathymetric survey and ecological monitoring.	Consultants are engaged only in respect of ecological monitoring on which in-house expertise is not available.	7.8 m	666,000	344,000
3	The study aims to carry out environmental monitoring of uncontaminated mud disposal site at South of Tsing Yi through water quality monitoring, bathymetric survey and ecological monitoring.	Ditto	17.1 m	1 m	1 m

Signature _____
 Name in block letters **T K TSAO**
 Post Title **Director of Civil Engineering and Development**
 Date **8 April 2005**

Reply Serial No.

ETWB(W)012

Examination of Estimates of Expenditure 2005-06

Question Serial No.

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

0432

Head : 33 - Civil Engineering and Development Department Subhead :

Programme : (5) Geotechnical Services

Controlling Officer : Director of Civil Engineering and Development

Director of Bureau : Secretary for the Environment, Transport and Works

Question : In paragraph 23, the Department indicates that it would continue to undertake studies to examine the effects of the dredging and mud disposal activities. What is the progress of the studies?

Asked by : Hon. LEE Wing-tat

Reply : The Department is committed to monitoring and assessing the environmental and ecological performance of projects involving substantial dredging and mud disposal to ensure that the resulting effects are acceptable in accordance with statutory requirements stipulated under the Environmental Impact Assessment Ordinance. Three such studies were completed in 2004-05, while seven studies will continue to be conducted in 2005-06.

Signature	_____
Name in block letters	T K TSAO
Post Title	Director of Civil Engineering and Development
Date	8 April 2005

Reply Serial No.

ETWB(W)013

Examination of Estimates of Expenditure 2005-06

Question Serial No.

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

0434

Head : 33 - Civil Engineering and Development Department

Subhead :

000 Operational expenses

Programme :

Controlling Officer : Director of Civil Engineering and Development

Director of Bureau : Secretary for the Environment, Transport and Works

Question :

1. The Department will delete 36 permanent posts and two supernumerary posts in 2005-06. Please state the work types, ranks and salaries of these posts.

2. With the deletion of these posts, why will the salaries and allowances increase compared with those in the revised estimate for the previous year?

Asked by : Hon. LI Kwok-ying

Reply :

1. The work types, ranks and salaries of the posts to be deleted in 2005-06 are as follows -

Work Type	Rank	Number	Notional annual mid-point salary value as at 1.1.2005 (per post) \$
Professional Grades	Principal Government Engineer	1	1,580,400
	Chief Engineer	1	1,144,200
	Senior Engineer	5	929,220
	Senior Geotechnical Engineer	1	929,220
	Senior Landscape Architect	2	929,220
	Engineer / Assistant Engineer	5	442,620
	Geotechnical Engineer / Assistant Geotechnical Engineer	2	442,620
	Sub-total :		17

Work Type	Rank	Number	Notional annual mid-point salary value as at 1.1.2005 (per post) \$
Technical Grades	Chief Technical Officer	1	710,520
	Senior Technical Officer (Geotechnical)	1	382,320
	Senior Technical Officer (Civil)	1	382,320
	Technical Officer / Technical Officer Trainee (Civil)	1	170,160
	Explosives Officer II / Assistant Explosives Officer	1	166,710
	Explosives Supervisor	1	152,280
	Artisan	1	142,860
	Laboratory Attendant	2	142,860
	Chainman	3	142,860
	Explosives Depot Attendant	2	115,380
	Sub-total :	14	
General Grades	Senior Clerical Officer	1	365,160
	Clerical Officer	1	275,880
	Motor Driver	1	142,860
	Typist	4	134,040
	Sub-total :	7	
Total :	38		

Based on the notional annual mid-point salary value as at 1.1.2005, the annual salary of the above 38 posts amounts to about \$17.6 million.

2. The Civil Engineering and Development Department (CEDD) was established on 1 July 2004 upon a merger of the former Civil Engineering Department and the former Territory Development Department. Under Head 33 CEDD, the estimate for 2005-06 represents a 12-month provision for the period from 1 April 2005 to 31 March 2006, whilst the revised estimate for 2004-05 covers a 9-month provision from 1 July 2004 to 31 March 2005. Compared on a full-year basis, there will be no increase in the salaries and allowances in 2005-06 over the previous year .

Signature	_____
Name in block letters	T K TSAO
Post Title	Director of Civil Engineering and Development
Date	8 April 2005

Examination of Estimates of Expenditure 2005-06
CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION

Reply Serial No.

ETWB(W)014

Head :39 - Drainage Services Department Subhead (No. & title) :
000 Operational Expenses

Question Serial No.

1423

Programme :

Controlling Officer : Director of Drainage Services

Director of Bureau : Secretary for the Environment, Transport and Works

Question : The Drainage Services Department is going to delete 23 posts in the year 2005-06. Please inform this Council of:

- (a) the rank of the posts to be deleted;
- (b) the reasons for deleting these posts;
- (c) the estimated savings; and
- (d) the arrangement in place to handle the workload after the deletion of posts.

Asked by : Hon. WONG Kwok-hing

Reply : (a) The number and rank of the 23 posts to be deleted are as follows -

<u>Rank</u>	<u>No. of posts to be deleted</u>
Senior Executive Officer	1
Executive Officer I	-1 (creation)
Works Supervisor I (Civil)	2
Personal Secretary II	1
Senior Typist	1
Typist	1
Senior Artisan (E&M)	2
Artisan (E&M)	8
Drain Chargeman	1
Leading Sewerman	1
Motor Driver	1
Chainman	1
Workman II	4
Total	<u>23 (net deletion)</u>

- (b) The posts are deleted due to natural wastage as well as our on-going drive for better efficiency and productivity.
- (c) The savings in notional annual mid-point salary cost arising from the net deletion of 23 posts are \$3.6 million.
- (d) The original workload of these posts will be absorbed by streamlining of work procedures, outsourcing part of our operation and maintenance works and reorganisation of duties.

Signature	_____
Name in block letters	F.K. LAI
Post Title	Director of Drainage Services
Date	8 April 2005

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)015

Question Serial No.

0397

Head : 194 Water Supplies Department Subhead (No. & title) :

Programme : (1) Water Supply : Planning and Distribution

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : Please provide details of the Asset Management Plan in paragraph 6 and how it will help to improve the efficiency of water supply?

Asked by : Hon. LEE Wing-tat

Reply :

The Asset Management Plan (AMP) is intended to provide an effective strategy on asset management, maintenance, enhancement and replacement. In this context, efforts are directed towards minimizing emergency repairs and service interruptions through regular and preventive maintenance. Two main types of assets are covered by AMP, namely, surface assets such as impounding/service reservoirs, water treatment works, pumping stations and buildings as well as underground assets comprising underground water mains and cables.

A 20-year Surface Asset Management plan is in progress for completion within about one year. Based on a comprehensive register of assets compiled in 2004, this exercise breaks down each waterwork installation into sub-processes and asset groups for detailed survey by experienced staff. The data so generated are then collated by a computer system to determine the relative priorities for improvement and replacement. Moreover, an Underground Asset Management plan is regularly updated to monitor the condition and performance of underground water mains. Through a structured planning process, large-scale replacement and rehabilitation programmes have been worked out covering about 3 000 km out of the 7 200 km of existing water mains for staged completion by 2015. Stage 1 of this programme has commenced construction in December 2000 while the design of stage 2 has started in early 2005. These plans will not only help to ensure efficiency in our water supply system, but also serves to reduce water leakage, disruption to road users and public inconvenience.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)016

Question Serial No.

0398

Head : 194 Water Supplies Department Subhead (No. & title) :

Programme : (1) Water Supply : Planning and Distribution

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : The estimated value of projects under design by WSD in 2005 is \$2,300 million. This nearly doubles the actual value of \$1,240 million under design in 2004. Would the Administration advise:

- (a) the reason for the substantial increase in the value of projects under design in 2005;
- (b) the location, programme content and value of projects under design in 2005.

Asked by : Hon. LEONG Kah-kit, Alan

Reply :

- (a) The substantial increase in estimated value of projects under design in 2005 is mainly attributable to the following changes:

PWP No.	Project Title	Project Cost (\$ m)	Projects under Design		Net Change (\$ m)
			2004 (Actual) (\$ m)	2005 (Estimate) (\$ m)	
9174WC	Replacement and rehabilitation of water mains, stage 1 phase 2	1,270	90	400	310
9182WC	Replacement and rehabilitation of water mains, stage 2	2,600	100	790	690

- (b) The location, programme content and value of projects under design in 2005 are summarised at Annex.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)017

Question Serial No.

0831

Head : 194 Water Supplies Department Subhead (No. & title) :

Programme : (1) Water Supply : Planning and Distribution

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : Water Supplies Department estimates that there will be 60 project items under construction in 2005. Do these items include works on fresh water mains and salt water mains? If yes, what are the contents of these items? How much fund is involved? Will the construction affect the use of water by the public?

Asked by : Hon. WONG Kwok-hing

Reply : Out of the 60 projects under construction in 2005, 53 involving laying of fresh water mains and salt water mains are summarised at Annex. When carrying out these works, appropriate measures will be taken to minimize interruption of water supply to the general public.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

Mainlaying Projects in 2005

PWP No.	Project Title	Estimated Expenditure for Fresh Water Mainlaying in 2005 (\$m)	Estimated Expenditure for Salt Water Mainlaying in 2005 (\$m)
9085WC	Water supply to South East Kowloon development, stage 1—works	58	29
9090WC	Replacement and rehabilitation of water mains, stage 1 phase 1	260	106
9174WC	Replacement and rehabilitation of watermains, stage 1 phase 2	11	5
9175WC	Replacement and rehabilitation of water mains, stage 1 phase 1 (part 1) works in Sheung Shui, Tai Po, Sha Tin and Mong Kok	7	3
9179WC	Replacement and rehabilitation of water mains, stage 1 phase 1 (part 2)—works in Yuen Long, Fanling, Kowloon City, Wong Tai Sin and Sham Shui Po	16	7
9183WC	Improvement to Hong Kong Central mid level and high level areas water supply—stage 2	5	1
9224WF	Mainlaying between Sham Tseng and Yau Kom Tau	14	0
9259WF	Mainlaying between Sham Tseng and Ka Loon Tsuen	14	0
9323WF	Provision of water supply to Ngong Ping	9	0
9042WS	Ring mains for Cha Kwo Ling salt water supply system—advance mainlaying in Cha Kwo Ling Road	0	11
B128WC	Remaining waterworks for development near Choi Wan Road and Jordan Valley	3	0
B127WC	Mainlaying within development near Choi Wan Road and Jordan Valley	10	2
	41 other items involving relatively minor mainlaying works	90	40
Total		497	204

Summary of Projects Under Design in 2005**Annex**

PWP No.	Category	Project Title	Total Cost (\$m)	Estimated Value of Projects Under Design in 2005 (\$m)
9053WC	B	Water supply to Wan Chai development phase 2	20.4	7.0
9058WC	B	Water supply to West Kowloon reclamation -stage 2 - remaining works	27.2	1.0
9076WC	B	Improvement to Hong Kong Central mid-level and high level areas water supply -remaining works	217.7	40.0
9086WC	B	Water supply to Pak Shek Kok, Tai Po - remaining works	18.5	0.5
9090WC	A	Replacement and rehabilitation of water mains, stage 1 phase 1	2063.4	100.0
9174WC	B	Replacement and rehabilitation of water mains, stage 1 phase 2	1270.0	400.0
9182WC	B	Replacement and rehabilitation of water mains, stage 2	2600.0	790.0
B126WC	B	Water supply to Housing Developments at Anderson Road	168.2	10.0
9237WF	B	Mainlaying along Fanling highway and near She Shan Tsuen	115.3	1.0
9238WF	B	Mainlaying between Sham Tseng and So Kwun Tan	117.0	45.0
9244WF	B	Water supply to Sha Tin development area 56A	63.4	10.0
9257WF	B	Siu Ho Wan water treatment works extension	1119.6	10.0
9325WF	B	Integration of Mt Davis fresh water primary service reservoir with Central and Western low level fresh water supply system	32.0	20.0

Summary of Projects Under Design in 2005**Annex**

PWP No.	Category	Project Title	Total Cost (\$m)	Estimated Value of Projects Under Design in 2005 (\$m)
9326WF	B	Integration of Lion Rock high level fresh water primary service reservoir and Tseung Kwan O primary fresh water service reservoir	92.4	18.0
9328WF	B	Integration of Siu Ho Wan and Silver Mine Bay water treatment works	442.0	100.0
9327WF	B	Laying of western cross harbour main and associated land mains from West Kowloon to Sai Ying Pun	243.7	4.0
9330WF	B	Remedial works for the rip-rap at the main dam of Plover Cove Reservoir	58.0	38.0
9036WS	B	Ring mains for Cha Kwo Ling salt water supply system	81.6	5.0
9043WS	B	Uprating of Wan Chai salt water supply system	211.8	100.0
9045WS	B	Salt water supply for North West New Territories	416.8	85.0
9046WS	B	Uprating of Sha Tin salt water supply system	198.0	26.0
5044WS	B	Salt water supply to Hong Kong Disneyland phase 1	113.8	57.0
9100WX	D	Waterworks, studies and investigations for items in Category D of the Public Works Programme	N/A*	420.0
			Grand Total	2287.5
			Say	2300.0

*No total cost for this Block Vote item. Funding is allocated year by year

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)018

Question Serial No.

0832

Head : 194 Water Supplies Department Subhead (No. & title) :

Programme : (1) Water Supply : Planning and Distribution

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : In relation to the Administration's plan to develop new water resources, what is the relevant scope and expenditure on these? Will the Administration investigate the process of seawater desalination? If yes, what is the amount to be invested on this investigation? If not, why not?

Asked by : Hon. WONG Kwok-hing

Reply :

On planning and development of new water resources, the Department is working on seawater desalination as well as collaborating with the Drainage Services Department and Environmental Protection Department to explore the scope for wider use of reclaimed water.

A pilot seawater desalination plant costing \$13.9 million has been set up by the Department with a view to optimizing various technologies based on reverse osmosis and deriving a business model for Hong Kong.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)019

Question Serial No.

1417

Head : 194 Water Supplies Department Subhead (No. & title) :

Programme : (1) Water Supply : Planning and Distribution
(3) Customer Services

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : The Administration will delete 44 posts under Programme (1) and 40 posts under Programme (3) in 2005-06. Please advise this Council of the following:-

- (a) ranks of the posts to be deleted;
- (b) scope of work of the posts to be deleted;
- (c) reasons for deletion of the posts;
- (d) estimated savings for deletion of the posts; and
- (e) future arrangements for handling the work concerned after deletion of the posts.

Asked by : Hon. WONG Kwok-hing

Reply :

- (a) The ranks of posts to be deleted in 2005-06 are listed at Annex.
- (b) The scope of work of those posts to be deleted under Programme (1) covers frontline operation, logistical support as well as supervision/planning related to water supply and distribution; the scope of work of those posts to be deleted under Programme (3) covers handling of customer requests and enquiries on water account matters.
- (c) Deletion of the posts concerned is necessitated by streamlining of work procedures, increased adoption of information technology applications and diminishing functional needs.

- (d) The estimated savings in notional annual mid-point salary cost arising from deletion of the 84 posts are \$15.8 million.
- (e) The original work of the posts to be deleted will be absorbed by way of internal redeployment and improved productivity achieved through office automation, process re-engineering and streamlining of work procedures.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

**Posts to be Deleted in the Water Supplies Department
under Programme (1) and Programme (3) in 2005-06**

<u>Programme</u>	<u>Rank</u>	<u>No. of Post</u>
1	Chief Technical Officer	2
	Senior Waterworks Inspector	1
	Waterworks Inspector	2
	Assistant Waterworks Inspector	2
	Works Supervisor I	5
	Works Supervisor II	3
	Artisan	13
	Workman I	6
	Workman II	7
	Assistant Clerical Officer	2
	Personal Secretary I	1
Sub-total:	44	
3	Assistant Waterworks Inspector	2
	Consumer Services Inspector	1
	Artisan	13
	Workman II	2
	Senior Meter Reader	1
	Meter Reader I	4
	Meter Reader II	3
	Clerical Officer	2
	Assistant Clerical Officer	11
	Clerical Assistant	1
Sub-total:	40	
	Total:	84

Reply Serial No.

ETWB(W)020

Examination of Estimates of Expenditure 2005-06

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Question Serial No.

0402

Head : Capital Works Reserve Fund Head - 705 - Civil Engineering

Subhead : 5001BX – Landslip preventive measures

Programme :

Controlling Officer : Director of Civil Engineering and Development

Director of Bureau : Secretary for the Environment, Transport and Works

Question : As understood, there were relatively more cases of hillfire in rural districts last year. Many slopes became bare because the vegetated cover had been burnt down, and they were prone to erosion and landslides. Under the Government's Landslip Preventive Measures Programme, what was the provision in 2004-05 for restoring slopes on which the vegetated cover had been burnt down? What is the provision for restoring such slopes in 2005-06?

Asked by : Hon. CHAN Wai-yip, Albert

Reply : The hillfires occurring in 2004-05 mainly affected remote hillsides. Since the Landslip Preventive Measures Programme funded under Subhead 5001BX is mainly meant to rectify old substandard man-made slopes affecting developments, no provision has been made in 2004-05 and 2005-06 for restoration of these natural hillsides.

Signature

Name in block letters

Post Title

Date

T K TSAO
Director of Civil Engineering
and Development

8 April 2005

Examination of Estimates of Expenditure 2005-06
CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION

Reply Serial No.

ETWB(W)021

Question Serial No.

1596

Head: Capital Works Reserve Fund – Head 705 - Civil Engineering

Subhead: 5001BX – Landslip preventive measures and
 5101CX – Civil engineering works, studies and investigations for items
 in Category D of the Public Works Programme

Programme:

Controlling Officer: Director of Civil Engineering and Development

Director of Bureau: Secretary for the Environment, Transport and Works

Question: Please provide details of works in Kwun Tong and Wong Tai Sin districts under Subheads 5001BX 'Landslip preventive measures' and 5101CX 'Civil engineering works, studies and investigations for items in Category D of the Public Works Programme'.

Asked by : Hon. LI Wah-ming, Fred

Reply: With regard to Subhead 5001BX, we plan to carry out investigation and, when required, upgrading works on the following slopes in the Kwun Tong and Wong Tai Sin districts in 2005-06 Landslip Preventive Measures Programme -

District	Slope No.	Slope Location
Kwun Tong	11NE-A/F135	New Clear Water Bay Road
	11NE-C/C24	On Tak Road
	11NE-C/C208	Hong Ning Road
	11NE-C/C247	Kwun Tong Road
	11NE-D/C209	Ma Yau Tong Village
	11NE-D/C352	Ngau Tau Kok Service Reservoir
Wong Tai Sin	7SE-C/C412	Shatin Pass Road
	11NE-A/C263	Ngau Chi Wan Street

With regard to Subhead 5101CX, we plan to carry out investigation and, when required, minor slope improvement works for the following slopes in the Kwun Tong and Wong Tai Sin districts -

District	Slope No.	Slope Location
Kwun Tong	11NE-D/C825	Po Tat Estate
	11NE-D/C826	Po Tat Estate
	11NE-D/CR301	Po Tat Estate
	11NE-A/CR456(2)	Shun Lee Estate

	11NE-A/CR542(3)	Shun Lee Estate
	11SE-B/NS1 – 10	Lei Yue Mun Estate
Wong Tai Sin	11NE-A/C867	Shatin Pass Estate
	11NE-A/C290(1)	Shatin Pass Estate
	11NE-A/F337(2)	Tsz Lok Estate
	11NE-A/FR339	Tsz Lok Estate
	11NE-A/R233	Tsz Lok Estate

Signature _____

Name in block letters _____

T K TSAO

Post Title _____

Director of Civil Engineering
and Development

Date _____

8.4.2005

Examination of Estimates of Expenditure 2005-06

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)022

Question Serial No.

0822

Head : Capital Works
Reserve Fund
Head 709 -
Waterworks

Subhead 9241WF – Extension of water supply
(No. & title): to Pok Fu Lam areas

Programme : -

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : In connection with Capital Works Reserve Fund Project No. 9241WF – Extension of water supply to Pok Fu Lam areas, would the Administration inform us of the following:

- (a) progress of the project;
- (b) the purpose of the project; and
- (c) it is noted that due to traffic problem, the Administration has imposed an administrative moratorium restricting high density development in Pok Fu Lam and Mid Level districts for many years and that there has not been tremendous growth of population in these districts. Has the Administration reviewed whether or not there is a need to extend the water supply system now and to proceed with the works? What is the result of the review?

Asked by : Hon. LEONG Kah-kit, Alan

Reply :

- (a) The project involves provision of a fresh water service reservoir and laying of 3 km of water mains. As at March 2005, construction of the former has been completed and 2.8 km of water mains have been laid. The remaining works will be completed in late-2005.

- (b) This project is required to meet water demands generated by the Cyberport and other planned developments in Pok Fu Lam.
- (c) The Department has factored into its planning process additional water demands based on projected usage of the Cyberport as well as the development potential of other sites in Pok Fu Lam subject to the moratorium. Apart from economy of scale considerations, incorporating future demands into this project could avoid repeated road openings or site works and thus minimise public inconvenience. After a careful review, we expect only a marginal change in project scope even if the moratorium restricting high density development persists.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

ETWB(W)023

Question Serial No.

1591

<u>Head</u> : Capital Works Reserve Fund Head 709 - Waterworks	<u>Subhead</u> (No. & title):	9100WX Waterworks, studies and investigation for items in Category D of the Public Works Programme
-------------------------------------------------------------------------	-------------------------------------	-------------------------------------------------------------------------------------------------------------

Programme :

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : Please list out all the project items located in Kwun Tong and Wong Tai Sin districts under Subhead 9100WX "Waterworks, studies and investigation for items in Category D of the Public Works Programme",

Asked by : Hon. LI Wah-ming, Fred

Reply : The projects under Subhead 9100WX located in Kwun Tong and Wong Tai Sin districts include:-

- (a) Replacement and improvement of fresh and salt water mains in Kwun Tong and Sau Mau Ping, 2005-06 programme;
- (b) Replacement and improvement of fresh and salt water mains in Wong Tai Sin and Ngau Tau Kok areas, 2005-06 programme;
- (c) Renovation of Lion Rock high level No. 2 fresh water primary service reservoir;
- (d) Provision of a cover deck to Sau Mau Ping salt water service reservoir;
- (e) Provision of a cover deck to Fung Wong salt water service reservoir;
- (f) Provision of a cover deck to Jordan Valley salt water service reservoir; and
- (g) Provision of a cover deck for Yau Tong salt water service reservoir.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

Examination of Estimates of Expenditure 2005-06
**CONTROLLING OFFICER'S REPLY TO
INITIAL WRITTEN QUESTION**

Reply Serial No.

ETWB(W)024

Question Serial No.

1592

Head : Capital Works
Reserve Fund
Head 709 -
Waterworks

Subhead
(No. &
title):

Programme :

Controlling Officer : Director of Water Supplies

Director of Bureau : Secretary for the Environment, Transport and Works

Question : What is the progress of the following projects? How are the allocations in 2004-05 and 2005-06 used? When will the works be completed? Will there be any deviations from the completion dates estimated at the project approval stage?

- (a) 9079WC : Additional trunk transfer facilities to Kowloon eastern areas and water supply to Anderson Road Quarries site development - stage 1;
- (b) 9085WC : Water supply to South East Kowloon development, stage 1 - works;
- (c) 9091WC : Water supply to new developments in Yau Tong area;
- (d) 9036WS : Ring mains for Cha Kwo Ling salt water supply system; and
- (e) 9042WS : Ring mains for Cha Kwo Ling salt water supply system - advance mainlaying in Cha Kwo Ling Road.

Asked by : Hon. LI Wah-ming, Fred

Reply : The requested information is summarised at Annex.

Signature: _____

Name in block letters: William C G KO

Post Title: Director of Water Supplies

Date: 8 April 2005

Annex

PWP No.	Present Position	Allocation in 2004-05 Used	Allocation in 2005-06 Used	Actual / Target Date of Completion	Reasons for Deviation from the Completion Date Estimated at Project Approval
9079WC	Works completed and contract finalization in progress.	Payment for outstanding works.	Payment for contract finalization.	March 2003 (Target date: November 2001)	Re-tendering of the mainlaying contract due to default of the pipe supplier as well as difficult ground conditions.
9085WC	Works are in progress.	Payment for completed works.	Payment for completed works.	December 2005 (Target date: March 2005)	Longer time required to resolve land matters and deal with unforeseen ground conditions.
9091WC	Substantially completed and outstanding works in progress.	Payment for completed works.	Payment for outstanding works and contract finalization.	August 2004 (Target date: March 2004)	Excessive rock excavation for construction of the service reservoir.
9036WS	Preliminary design completed in early 2005 and tenders invitation scheduled in May 2005.	No provision.	Payment for completed works.	September 2009 (Target date: September 2009)	No delay.
9042WS	Works are in progress.	Payment for completed works.	Payment for completed works.	June 2006 (Target date: November 2006)	No delay.