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KINGDOM OF LESOTHO - PROGRESS REPORTS BY R.F. ASHFORD,  
ADVISED TO THE CHIEF WATER AND SEWERAGE ENGINEER

4 FEB 1974 - 12 AUG 1975

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20 AUG 1975

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PR/SECTION FOR AFRICA/OTC

*M. Al Futaih / Miss Howard*  
*a. F. 2/8*

Water and Sewerage Division,

RECORDS CONTROL

P.O. Box 426,

MASERU.

3 - SEP 1975

12th August, 1975.

Dear Sir,

LBS/72/044 PROJECT PROGRESS REPORT FOR THE  
PERIOD APRIL 1975 TO JULY 1975

Please find attached two copies of my progress report  
for the above period.

Yours sincerely,

*R.E. Ashford*


(R.E. ASHFORD)

The Chief  
Physical Resources Section,  
UNOTC,  
New York.


cc: Resident Representative,  
UNDP  
MASERU.

cc WF



2	UNITED NATIONS DEVELOPMENT PROGRAMME				FORM A SUMMARY
	PROJECT PROGRESS REPORT	PROJECT NUMBER <u>172/</u> LES/044	AGENCY UNOTC	REPORTING PERIOD APRIL 1975 JULY 1975	
COUNTRY AND PROJECT TITLE: <u>LESOTHO</u> <u>ADVISER TO THE CHIEF WATER ENGINEER</u>			DURATION  4 years	UNDP BUDGET (\$US)	
DATE PROJECT APPROVED  SEPTEMBER, 1972	START OF FIELD WORK  SCHEDULED 21 Sept 1972		COMPLETION OF FIELD WORK  ORIGINAL EST. 20 Sept 1974		TRIPARTITE REVIEW? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>  DATE: 15 Aug 1975
ACTUAL 21 Sept 72		CURRENT EST. 7 Aug 1976			
<b>Summary of Project Implementation</b>					
<p>a) <u>Project Activities</u> Home leave covered half of the reporting period. The project consisted of generally helping and co-operating with the Chief Water &amp; Sewerage Engineer in all of his duties. Most of the time was again spent on development work and work in the finance sector.</p> <p>b) <u>Major Problems</u> The lowering of standards mentioned in my last report continued - probably due to lack of key staff. Another problem was the lack of contact with my counterpart which meant that <del>often</del> work was sent direct to me by the Controller of Works &amp; Services.</p> <p style="padding-left: 40px;">There are long delays in first authorising essential projects and then releasing funds to enable work to start.</p> <p>c) <u>Project Achievements</u></p> <p style="padding-left: 40px;">(i) The continued progress on the construction of Mohale's Hoek &amp; Teyateyaneng Water Supply</p> <p style="padding-left: 40px;">(ii) Work on the augmentation of Maseru's Sewage treatment facilities to stop pollution of the Caledon river</p> <p style="padding-left: 40px;">(iii) The engagement of consultants to study the future development of Maseru's water supply</p> <p>d) <u>Overall Status</u> Little progress has been made. Projects (i) &amp; (ii) above were existing projects which merely continued to progress. Little advance was made on any new work.</p>					
NAME OF PROJECT MANAGER/EXPERT AND DATE  R.E. ASHFORD                      11 August, 1975				FORMS SUBMITTED (CHECK) A <input checked="" type="checkbox"/> B <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> E-1 <input type="checkbox"/> E-2 <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I-1 <input type="checkbox"/> I-2 <input type="checkbox"/>	



<div>3</div> 	<div>UNITED NATIONS DEVELOPMENT PROGRAMME</div>			<div>           FORM B            GENERAL            ACCOUNT         </div>
<div>           PROJECT PROGRESS            REPORT         </div>	<div>           PROJECT NUMBER            1721            LES/044         </div>	<div>           AGENCY            UNOTC         </div>	<div>           REPORTING PERIOD            APRIL 1975            JULY 1975         </div>	

## General Account of Project Implementation

### A. Project Activities

General. This report covers the four month period, 1 April 1975 to 31 July 1975. I noted in my last report that the standard of maintenance was declining and there had been financial difficulties up to the end of March 1975. For the first two weeks or so of the reporting period there was little activity, as it was the beginning of the financial year and money was being applied for and allocated. From 11 April until the end of May I was on home leave. As soon as I returned the Chief Water Engineer went to Swaziland to a conference and immediately after this took leave. Thus from the start of the reporting period until the latter half of June I had no contact with my counterpart. After this he returned to duty but I still saw little of him. Despite a written instruction from the Controller of Works & Services, the professional head of the Ministry of Works, that the Chief Engineer was to act in all capacities and that I was to confine myself to advisory duties I found (with the full knowledge of the Controller) that it was essential that I carried out many tasks in the sphere of development as otherwise important work would have completely stopped. I have ~~however~~ however carried out few in-line duties in the operation and maintenance area.

### I. Advise on the Operation and Maintenance of Existing Water Supply and Supply and Sewage Disposal Schemes.

The water supply schemes are continuing to operate but in the last few weeks there have been serious breakdowns at two of them (Qacha's Nek and Quthing) whilst at another two (Mokhotlong and Teyateyaneng) much of the mechanical plant is in a poor condition. The regular sampling and testing of water supplies for bacteriological purity has been discontinued. The number of water meters, out of action is high and the system of the stores "reporting-on" and "chasing" orders has been allowed to fall into abeyance. I have also been told that the arrears in collection of revenue are high.

The post of Senior Technical Officer has now been filled by promoting one of the Higher Technical Officers from the branch. (Mr. Monahali who returned from the diploma course in Canada, see I-1). This means that although the post has been filled the branch has not really been strengthened.

The sewage works which is grossly overloaded continued to operate but Mr. Andersen the OPAS Sewage Design Engineer who kept a watching brief has completed his contract and has left. This has put an extra load on the existing staff.



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II Advise on the design and construction of extensions to existing water supply and sewage disposal schemes

Maseru Water Supply This work is now virtually completed and little time was spent upon it.

Maseru Sewerage This has been one of the main areas of work and consists of

a) An extension to Maseru sewage mains and waste stabilisation ponds. This is being constructed departmentally and is proceeding well.

b) Water and Sewage designs for two housing estates in Maseru which have been carried out by Consulting Engineers one of which is being constructed at present. These are both behind time but are progressing.

c) An scheme to serve the UNDP low cost housing scheme and the teachers training college area. This is an urgently required scheme which has been held up for a long period due to non-availability of funds. They have now been released but great operational difficulties will be experienced as a result of the delay.

d) An scheme to serve an extension to Maseru's Industrial area and the Technician Training Centre. This is an urgently required scheme for which funds are not yet available.

A considerable amount of time has been spent in trying to obtain funds for these last two items.

III Advise on the Design & Construction of New Water Supply and Sewage Disposal Schemes

The two main new water supply schemes - Mohale's Hoek and Teyateyaneng are under construction and despite difficulties are progressing.

The Thaba-Tseka project has grown and there has been considerable discussion about it. The Chief Water Engineer has been asked to brief Consultants for this work and this has been done but they are unable to start work as no funds have been released.

The Investigation of the underground water resources at Roma has continued but this has been hampered by transport and supervision problems. This job has been on the verge of stopping due to lack of finance once this year and the problem is becoming acute again.

The study of the sources for future water resources of



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Maseru has not yet started but the AFDB has instructed consultants.

The major study of water supplies for twelve towns in Lesotho has not yet started due to funding difficulties.

#### IV Advise on the Routine Administration of the Department

Nothing has been done in this area due to lack of contact with the Departmental Head over most of the period but there has been a deterioration in standard of operation of the department. I think that much of this may be due to the departure of the two Expatriate Senior Technical Officers, the absence of the water engineer on leave and the vacancy in the other water engineer post. There is also a long delay in filling junior staff posts. There was also a feeling of dissatisfaction over pay until the new scales were announced recently.

#### V Assist in the Preparation of Project Documents

I have suggested thirteen new projects for next years estimates but work has not yet started on the preparation of documents.

#### VI Additional

Training. The training of "daily paid" trainee tracer/draftsmen also continued but two out of six have now left and have not been replaced.

#### B PROJECT PROGRESS

Little progress has been made on the project except in the construction stage. The main reason for this has been:

- a) For half of the relevant period I was on leave and after this the Chief Water Engineer was absent at conferences and on leave for about three weeks.
- b) Most new projects are delayed due to non availability of funds.

#### C WORK PROGRAMME

This project is scheduled to finish in August 1975 and I think that it can and should end then. By that time

- a) The report on sewerage the district headquarters, produced by the OPAS Sewage Design Engineer, will have been studied by Government and required projects identified. Memoranda for these projects should have been produced and designs should be being prepared by the associate expert if he is here by then.



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b) The design of the Maseru Sewage Project should be completed and the construction phase should be well under way

c) The investigation of future development and sources of supply of Maseru Township financed by AFDB should be completed and available to Government.

d) The investigation of the supplies to the twelve townships in Lesotho and the associated organisation and management study of the water branch financed by German Aid should be completed and available to Government.

With these developments and studies available I think the necessity for an adviser should no longer exist. To work towards this situation my proposed schedule for the next six months is

a) Inspection of Stores, Accounts for each water supply installations and preparation of recommendations on necessary actions to ensure continuity of supplies.

b) Correction of Proofs and arranging printing, binding etc. of OPAS Sewage Design Engineer's Reports.

c) Co-operate with consultants on:-

- (i) The planning of water supplies to the twelve townships in Lesotho(Aid from Federal Republic of Germany)
  - (ii) The planning of the future water supplies to Maseru (IAfDB Aid)
  - (iii) The design and preparation of contract documents for the new Maseru Sewage scheme.
- d) Supervise the construction of the short term augmentation of Maseru's sewage treatment facilities.



PROJECT PROGRESS  
REPORTPROJECT NUMBER  
LES/72/044AGENCY  
UNOTCREPORTING PERIOD  
APRIL 1975  
JULY 1975PROJECT  
ACTIVITIES

ACTIVITY NO.	PROJECT ACTIVITY	ACTIVITY STARTED		ACTIVITY COMPLETED		MAJOR POSITIVE/NEGATIVE FACTORS AFFECTING RESULTS OF ACTIVITIES AND IMPLEMENTATION
		SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)	
1	Advise CWE on operation and maintenance of existing Water Supply & Sewage Disposal Schemes	Sept. 1972	Sept. 1972	Aug. 1976	(Aug 1976)	
2	Advise on design & construction of extensions to existing Water Supply & Sewage Disposal Schemes	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	
3	Advise on design & Construction of new Water Supply & Sewage Disposal Schemes	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	
4	Advise on the routine administration of the Water & Sewerage Division of the Ministry of Works	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	
5	Assist in the preparation of project documents to describe & support extensions to or installation of new Water Supply and Sewage Disposal Schemes	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM D

PROJECT PROGRESS  
REPORTPROJECT NUMBER  
LES/72/044AGENCY  
UNOTCREPORTING PERIOD  
APRIL 1975  
JULY 1975PROJECT  
INPUTS

## UNDP/AGENCY INPUTS


	DURING PERIOD		CUMULATIVE	
	PLANNED	ACTUAL	PLANNED	ACTUAL
EXPERTS (Man-months)	4	4	34	34
SUBCONTRACTS (\$US 000)	0	0	0	0
EQUIPMENT REC'D (\$US 000)	0	0	0	0
FELLOWSHIPS (Man-months)	0	0	0	0

## GOVERNMENT INPUTS

COUNTERPART STAFF (Man-months)	4	4	34	34
SUPPORT STAFF (Man-months)	3	3	23	23
EQUIPMENT REC'D (\$US 000)	0.4	0.4	3	3
BUILDINGS, LAND (\$US 000)	0.3	0.3	2	2
CASH SUPPORT (\$US 000)	0	0	0	0
OTHER <u>Transport &amp; Sundry</u> (Specify)	0.3	0.3	2	2

REMARKS:



	UNITED NATIONS DEVELOPMENT PROGRAMME			FORM E-1
	PROJECT PROGRESS REPORT	PROJECT NUMBER LES/72/044	AGENCY UNOTC	REPORTING PERIOD APRIL 1975 JULY 1975

POST NO.	POST DESCRIPTION	NAME OF INCUMBENT (AND NATIONALITY)	ARRIVED (MO/YR)		DEPARTED (MO/YR)	
			SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)
1	Adviser to the Chief Water & Sewerage Engineer	Robert E. Ashford	9/72	9/72	8/76	(8/76)
2a	Assistant to Water Engineer	Wolfgang Schmid	-	3/75	3/77	8/75
2b	Assistant to Water Engineer	Karl Freitag	-	1/75	12/77	(12/77)
3	Drawing Office Supervisor	Per F. Fjrdvang	-	4/75	4/77	(4/77)

REMARKS: (a) Post 2a, 2b & 3 Were not in the original project document but came as a result of a subsequent request.

(b) Posts 2a & 2b One request for an Assistant to the Water Engineer was made. In December 1974 Mr. Freitag came to Lesotho as a Volunteer assistant quantity surveyor in the Architects department. It was found that his previous experience did not enable him to carry out



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these duties. It was therefore decided by agreement with the Resident Representative, Government and the Architect that he should transfer to this Project where his training and abilities could be used. This transfer was made in February, 1975.

In March Mr. Schmid arrived to fill the post of Assistant to the Water Engineer, but almost as soon as he arrived he notified me that he had only come for five months. In this instance, due to a heavy workload and the fortuitous presence of Mr. Freitag, this has not led to difficulties but I would suggest that, in future, volunteers are not sent to Projects for very short periods without it being clear to all concerned in advance that the appointment is for a very restricted time.





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM E-2

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

APRIL 1975  
JULY 1975GOVERNMENT  
PERSONNEL

POST NO.	POST DESCRIPTION	NAME OF INCUMBENT	FULL/ PART TIME	ASSUMED DUTY (MO/YR)	
				SCHED.	ACTUAL (EST.)
1	Chief Water and Sewerage Engineer	PINDA, M.T.	F	Sept. 1972	Sept. 1972

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

APRIL 1975

JULY 1975

FORM F

FELLOWSHIPS

POST NO.	FELLOWSHIP POST	DURA- TION (MOS)	NAME OF FELLOW AND COUNTRY OF STUDY	STARTED (MO/YR)		COMPLETED (MO/YR)	
				SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)
	NONE						

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM G.

PROJECT PROGRESS  
REPORTPROJECT NUMBER  
LES/72/044AGENCY  
UNOTCREPORTING PERIOD  
APRIL 1975  
JULY 1975

EQUIPMENT

EQUIPMENT	DELIVERY (MO/YR)		REMARKS
	SCHED.	ACTUAL (EST.)	
NONE			





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM H

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

APRIL 1975  
JULY 1975

REPORTS

TITLE OF REPORT, PAPER, ETC.

REMARKS

NONE





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM I-1

PROJECT PROGRESS  
REPORTPROJECT NUMBER  
LES/72/044AGENCY  
UNOTCREPORTING PERIOD  
APRIL 1975  
JULY 1975LONG TERM  
TRAINING COURSES

	DURATION (YRS.)		PREP. YEAR OF STUDY	1ST YEAR OF STUDY	2ND YEAR OF STUDY	3RD YEAR OF STUDY	4TH YEAR OF STUDY	5TH YEAR OF STUDY	TOTAL
<b>I. NUMBER OF STUDENTS ENROLLED BY FIELD OF STUDY AS OF <u>JULY 1975</u></b>									
All Fields of Study		P*							0
		A†							0
Field of Study I:		P							
		A							
Field of Study II:		P							
		A							
Field of Study III:		P							
		A							
Field of Study IV:		P							
		A							
Field of Study V:		P							
		A							
<b>II. NUMBER OF STUDENTS WHO COMPLETED TRAINING AS OF _____</b>									
Total Number During Reporting Period		P							0
		A							0
Total Number Since Start of Project		P							0
		A							0
Total Number of "Dropouts" Since Start of Project									1
<b>REMARKS:</b> No plans for long term training courses were included in the project, but one local officer from the Water Division - a Higher Technical Officer - was sent to Canada on a course leading to a Civil Engineering Diploma and entered the first year in January 1974. In December 1974 he came back from training and has not since returned to Canada. I have been unable to find the exact reason but assume that he was not successful in his first set of yearly examinations.									

\*P = PLANNED

†A = ACTUAL





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORTPROJECT NUMBER  
LES/72/044AGENCY  
UNOTCREPORTING PERIOD  
APRIL 1975  
JULY 1975FORM I-2  
SHORT TERM  
TRAINING  
COURSES

TRAINING ACTIVITY	DURATION	DATE STARTED (MO/YR)	DATE COMPLETED (MO/YR)	NUMBER OF PARTICIPANTS		
				PLANNED	STARTED	COMPLETED
Training of "temporary staff employed as trainee tracers & draftsmen(N.S.)	4 Months	April 1975	July 1975	3	5	4 conti- nuously employed

REMARKS:



ENCLOSURE ATTACHED *am*

OFFICIAL CORRESPONDENCE	CONTROL NO.
MUST BE RETURNED TO RECORDS CONTROL, ROOM 2074	7/14/35

C/O Resident Representative,

UNDP

P.O. Box 301,

Maseru.

27/6/1975

RECEIVED

15 JUL 1975

PR/SECTION FOR AFRICA/OTC

RECEIVED IN RECORDS CONTROL
14 JUL 1975
ACTION TO:
1 Mr. Rodolphe
2 Miss Lowndes
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The Chief,  
Physical Resources Section  
UNOTC  
New York.

Dear Sir,

LES/72/004 PROJECT PROGRESS REPORT FOR THE  
PERIOD OCTOBER 1974 to MARCH 1975

Please find attached two copies of my progress report  
for the above period.

Yours sincerely,


*R.E. Ashford*  
R.E. ASHFORD.

cc. "Resident Representative  
UNDP  
Maseru.

cc WF

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		UNITED NATIONS DEVELOPMENT PROGRAMME				FORM A SUMMARY
		PROJECT PROGRESS REPORT	PROJECT NUMBER LES/72/044	AGENCY UNOTC	REPORTING PERIOD OCT 1974 MARCH 1975	
COUNTRY AND PROJECT TITLE: <b>LESOTHO</b>			DURATION <b>4 years</b>		UNDP BUDGET (\$US)	
ADVISER TO THE CHIEF WATER & SEWAGE ENGINEER						
DATE PROJECT APPROVED  September 1972	START OF FIELD WORK		COMPLETION OF FIELD WORK		TRIPARTITE REVIEW? YES <input type="checkbox"/> NO <input type="checkbox"/>  DATE: 27 June 75	
	SCHEDULED 21 Sept 72	ACTUAL 21 Sept 72	ORIGINAL EST. 20 Sept 74	CURRENT EST. 7 Aug. 1976		
<b>Summary of Project Implementation</b> <p>a) <u>Project Activities</u> The project consisted of generally helping and cooperating with the Chief Water &amp; Sewage Engineer in all of his duties. Most of the time was divided between development work and work in the planning and finance sectors.</p> <p>b) <u>Major Problems.</u> During this period the main difficulty was the lack of materials due to financial problems experienced before October 1974. This has been overcome but a similar one is likely later this year due to the drop in purchasing power of the funds allocated and to long delivery times now being quoted for all materials.</p> <p style="padding-left: 40px;">The resignation of the two key Senior Technical Officers in June/July 1974 has now had its effect in a general lowering of standards. The U.N. volunteers have now arrived and a new S.T.O. is in the process of being recruited so there should soon be an improvement, although much effort will be needed to recover lost ground.</p> <p>c) <u>Project Achievements</u></p> <p style="padding-left: 40px;">(1) The continued progress on construction of new water works at Teyateyaneng, Mochales Hoek and Maseru.</p> <p style="padding-left: 40px;">(2) The start of work on an improvement to Maserus Sewage System to stop pollution of the River Caledon.</p> <p style="padding-left: 40px;">(3) Progress towards the engagement of Consultants to study the development of Water Supplies in all townships in Lesotho.</p> <p>d) <u>Overall status</u> The project is progressing in that</p> <p style="padding-left: 40px;">(1) The services given to the public by the Water &amp; Sewage Department are still increasing.</p> <p style="padding-left: 40px;">and (2) Steady progress is being made towards the financing of major projects to increase these services still further.</p>						
NAME OF PROJECT MANAGER/EXPERT AND DATE  R.E. ASHFORD                      27 June 1975				FORMS SUBMITTED (CHECK) <div style="display: flex; justify-content: space-around; font-size: small;"> <span>A <input type="checkbox"/></span> <span>B <input type="checkbox"/></span> <span>C <input type="checkbox"/></span> <span>D <input type="checkbox"/></span> <span>E-1 <input type="checkbox"/></span> <span>E-2 <input type="checkbox"/></span> <span>F <input type="checkbox"/></span> <span>G <input type="checkbox"/></span> <span>H <input type="checkbox"/></span> <span>I-1 <input type="checkbox"/></span> <span>I-2 <input type="checkbox"/></span> </div>		





PROJECT PROGRESS

PROJECT NUMBER

AGENCY

REPORTING PERIOD

REPORT

LES/72/044

UNOTC

OCT 1974  
MARCH 1975GENERAL  
ACCOUNTGeneral Account of Project ImplementationA) PROJECT ACTIVITIESI Advice on the Operation & Maintenance of Existing Water Supply & Sewage Disposal Schemes

The water supply schemes continued to operate, and over the period covered by this report, they supplied the highest peak outputs yet achieved. Considerable difficulties were experienced in meeting these demands at most stations; due to the financial constraints described in my last report. Complete breakdowns of supply for periods of days were experienced at two of the townships.

The money to run the supplies in the Financial year 1975/76 has now nearly all arrived and this particular problem appears to have been overcome.

Now however the delivery periods for spare parts and materials are growing longer by the day whilst inflation and recent large wage increases are decreasing the purchasing power of the funds allocated. It therefore appears that further difficulties may lie ahead.

The standard of maintenance has declined as the vacant post of Senior Technical Officer(Maintenance) has not been filled and the Volunteer Water Engineer who it was hoped might help to supervise the running of the schemes did not arrive as early as had been anticipated. A new Senior Technical Officer has now been accepted and is expected to arrive in the near future. With constant supervision from this officer and help from Mr. Freitag it is expected that the standard will rise in the next few months.

II Advice on the design & Construction of extensions to existing Water Supply & Sewage Disposal Schemes

**Maseru Water Supply:** This work is progressing well but slowly, the pumping mains are virtually complete and only trunk distribution pipelines remain. About 95% of the funds have been expended.

**Maseru Sewerage:** An extension to the sewage mains and the waste stabilisation ponds to stop the present pollution of the River Caledon has been designed departmentally.

**Infrastructure Maseru:** Water and Sewerage designs for two housing estates in Maseru have been carried out by Consulting Engineers and one of these is at present being constructed.



### III Advise on the Design & Construction of New Water Supply and Sewage Disposal Schemes

The two main new water supply schemes - Mofales Hoek and Teyateyaneng are under construction and, despite some initial difficulties, are progressing well.

Investigations of small water supplies for Thaba Tseka, Qachas Nek and Kolonyama (irrigation) have been carried out and designs are now being produced by two IVS volunteers attached to the branch.

### IV Advise on the Routine Administration of the Department

The administration of the department has continued and most of the work in this direction has been concentrated on overcoming financial and transportation problems. This has taken up a large amount of time.

### V Assist in the Preparation of Project Documents

Only two minor Project documents were prepared in this period, but a large amount of time was spent upon the comparison of offers received from Consultants for the German Aid Project for water supplies to twelve towns in Lesotho.

### VI Additional

Training The in-service training of staff technical assistants continued throughout the period, as did the training of "daily paid" trainee tracers, draftsmen and surveyor assistants employed in this division. The IVS volunteer extended his contract until the arrival of Mr. Freitag, so the trainees were under unbroken supervision.

The national shortage of Engineers in training is still acute. During the period of this report I put forward a proposal to the Permanent Secretary of Works that the Ministry should deal with this on a long term basis by:-

Assessing the total number of trainees required yearly allowing for failures and wastage:

Obtaining the agreement of an aid organisation to make available the finance and places to train undergraduates:  
and



Mounting a continuous campaign to locate and recruit suitable candidates for training.

This proposal was approved by the Permanent Secretary and sent forward to Planning Office and the Cabinet Office, who handle staff matters, with a recommendation that some such scheme should be implemented.

#### B PROJECT PROGRESS

Once again, in so far as the project is one to help and advise the Chief Water & Sewerage Engineer, it is progressing well but the work of the Division has been hampered by the lack of funds and senior staff. It is hoped that these will be overcome in the new financial year - April 1975 to April 1976 - for which funds have been released. It appears, at this stage, that funds may well once again be a major difficulty due to general inflation and the high increases in labour and fuel cost.

#### C WORK PROGRAMME

In the next six months the main areas of work will be

- a) Inspection of Stores, Accounts and of each water supply installation and the preparation of recommendations on necessary actions to ensure the continuity of supplies.
- b) Design of Maseru's sewerage & sewage System.
- c) Co-operation with Consulting Engineers on the planning of the future water supplies to Maseru.
- d) Co-operation with Consulting Engineers on the planning of the future water supplies to twelve townships in Lesotho.
- e) Construction of new water supplies in Mofale's Hoek & Teyateyaneng.
- f) Design of new water supplies for Thaba Tseka & Quthing.
- g) Design and Construction of Infrastructure to parts of Maseru & other townships.





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

AGENCY

REPORTING PERIOD

LES/72/044

UNOTC

OCT 1974

MARCH 1975

FORM C  
PROJECT  
ACTIVITIES

ACTIVITY NO.	PROJECT ACTIVITY	ACTIVITY STARTED		ACTIVITY COMPLETED		MAJOR POSITIVE/NEGATIVE FACTORS AFFECTING RESULTS OF ACTIVITIES AND IMPLEMENTATION
		SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)	
I	Advise CWE on operation and maintenance of existing Water Supply and Sewage Disposal Schemes	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	
2	Advise on design & Construction of extensions to existing Water Supply & Sewage Disposal Schemes	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	
3	Advise on design & Construction of new Water Supply & Sewage Disposal Schemes	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	
4	Advise on the routine administration of the Water & Sewerage Division of the Ministry of Works	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	
5	Assist in the preparation of project documents to describe & support extensions to or installation of new Water Supply and Sewage Disposal Schemes	Sept 1972	Sept 1972	Aug 1976	(Aug 1976)	





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM D

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

OCT 1974  
MARCH 1975PROJECT  
INPUTS

## UNDP/AGENCY INPUTS

	DURING PERIOD		CUMULATIVE	
	PLANNED	ACTUAL	PLANNED	ACTUAL
EXPERTS (Man-months)	6	6	30	30
SUBCONTRACTS (\$US 000)	0	0	0	0
EQUIPMENT REC'D (\$US 000)	0	0	0	0
FELLOWSHIPS (Man-months)	0	0	0	0

## GOVERNMENT INPUTS

COUNTERPART STAFF (Man-months)	6	6	30	30
SUPPORT STAFF (Man-months)	4	4	20	20
EQUIPMENT REC'D (\$US 000)	0.6	0.6	3	3
BUILDINGS, LAND (\$US 000)	0.5	0.5	2	2
CASH SUPPORT (\$US 000)	0	0	0	0
OTHER <u>transport &amp; Sundry</u> (Specify)	0.3	0.3	2	2

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM E-1

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

OCT 1974  
MARCH 1975AGENCY  
PERSONNEL

POST NO.	POST DESCRIPTION	NAME OF INCUMBENT (AND NATIONALITY)	ARRIVED (MO/YR)		DEPARTED (MO/YR)	
			SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)
I	Adviserto the Chief Water and Sewage Engineer	Robert E. Ashford	9/72	9/72	8/76	(8/76)
2a	Assistant to Water Engineer	Wolfgang Schmid	-	3/75	3/77	(8/76)
2b	Assistant to Water Engineer	Karl Freitag	-	I/75	I2/77	(I2/77)
3	Drawing Office Super- visor	Per F. Fjordvang	-	4/75	4/77	(4/77)

REMARKS: a) Post 2a, 2b and 3 Were not in the original Project document but came as a result of subsequent requests.

b) Posts 2a & 2b One request for an Assistant to the Water Engineer was made. In December 1974 Mr Freitag came to Lesotho as a Volunteer assistant quantity surveyor in the Architects department.



It was found that his previous experience did not enable him to carry out these duties. It was therefore decided by agreement with the Resident Representative, Government and the Architect that he should transfer to this Project where his training and abilities could be used. This transfer was made in February 1975.

In March Mr Schmid arrived to fill the post of Assistant to the Water Engineer, but almost as soon as he arrived he notified me that he had only come for five months. In this instance, due to a heavy workload and the fortuitous presence of Mr Freitag, this has not led to difficulties but I would suggest that, in future, volunteers are not sent to Projects for very short periods without it being clear to all concerned in advance that the appointment is for a very restricted time.





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM E-2

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

AGENCY

REPORTING PERIOD

GOVERNMENT  
PERSONNEL

LES/72/044

UNOTC

OCT 1974  
MARCH 1975

POST NO.	POST DESCRIPTION	NAME OF INCUMBENT	FULL/ PART TIME	ASSUMED DUTY (MO/YR)	
				SCHED.	ACTUAL (EST.)
I	Chief Water & Sewerage Engineer	PINDA, M.T.	F	Sept 1972	Sept 1972

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

OCT 1974  
MARCH 1975

FORM F

FELLOWSHIPS

POST NO.	FELLOWSHIP POST	DURA- TION (MOS)	NAME OF FELLOW AND COUNTRY OF STUDY	STARTED (MO/YR)		COMPLETED (MO/YR)	
				SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)
	NONE						

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM G.

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

OCT 1974

MARCH 1975

EQUIPMENT

EQUIPMENT	DELIVERY (MO/YR)		REMARKS
	SCHED.	ACTUAL (EST.)	
NONE			





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM H

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

OCT 1974  
MARCH 1975

REPORTS

TITLE OF REPORT, PAPER, ETC.

REMARKS

NONE





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM I-1

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

AGENCY

REPORTING PERIOD

LES/72/044

UNOTC

OCT 1974  
MARCH 1975LONG TERM  
TRAINING COURSES

	DURATION (YRS.)		PREP. YEAR OF STUDY	1 ST YEAR OF STUDY	2 ND YEAR OF STUDY	3 RD YEAR OF STUDY	4 TH YEAR OF STUDY	5 TH YEAR OF STUDY	TOTAL
I. NUMBER OF STUDENTS ENROLLED BY FIELD OF STUDY AS OF <u>MARCH 1975</u>									
All Fields of Study		P *							0
		A†							0
Field of Study I:		P							
		A							
Field of Study II:		P							
		A							
Field of Study III:		P							
		A							
Field of Study IV:		P							
		A							
Field of Study V:		P							
		A							

II. NUMBER OF STUDENTS WHO COMPLETED TRAINING AS OF MARCH 1975

Total Number During Reporting Period	P								0
	A								0
Total Number Since Start of Project	P								0
	A								0
Total Number of "Dropouts"									I
Since Start of Project									

REMARKS: No Plans for long term training courses were included in the project but one local Officer from the Water Division A Higher Technical Officer, was sent to Canada on a course leading to a Civil Engineering Diploma and entered the first year in January 1974. In December 1974 he came back from training and has not since returned to Canada. I have been unable to find the exact reason but assume that he was not successful in his first set of yearly examinations.

\*P = PLANNED

†A = ACTUAL





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

OCT 1974  
MARCH 1975FORM I-2  
SHORT TERM  
TRAINING  
COURSES

TRAINING ACTIVITY	DURATION	DATE STARTED (MO/YR)	DATE COMPLETED (MO/YR)	NUMBER OF PARTICIPANTS		
				PLANNED	STARTED	COMPLETED
A) In service training of Technicians (N.S.)	6 months	Oct 1974	March 1975	4	4	4
B) Training of "Temporary" Staff employed as trainee tracers & draftsmen (N.S.)	6 Months	Oct 1974	March 1975	3	6	5 continuo usly em- ployed

REMARKS:



ENCLOSURE ATTACHED

UNITED NATIONS



DEVELOPMENT PROGRAMME

OXFAM HOUSE,  
KINGSWAY,  
MASERU,  
LESOTHO.

Reference: LES/72/044

BY POUCH

Dear Tony,

RECEIVED

24 DEC 1974

PR. SECTION FOR AFRICA/OTC

16 JAN. 1975

12 December, 1974

P.O. BOX 301  
Telex. 342 BB  
Cable Address: UNDEVPRO  
Telephone: 3790, 3791

LES/72/044 - Adviser to the Chief Water  
and Sewerage Engineer

Reg TE 432/21  
LESOTHO (9)

..... Please find enclosed two copies of the Progress Report for the period April, 1974 to September 1974 on the above project.

The expert has mentioned two problems facing the project: Problem No.1 - shortage of finance - is caused by the delayed release of funds earmarked for the Water and Sewerage Department by the Ministry of Finance. Though the funds have now been released, the expert has advised that it has disrupted the whole programme. Thus we intend to discuss this question at the tripartite review for the project scheduled for this month.

In regard to Problem No.2 - shortage of staff - I am glad to advise you that UNOTC has already cleared the job description for the posts in question and UNV Geneva, has been requested to expedite recruitment of the volunteer engineers.

Yours sincerely,

A.T. Kabbah  
Resident Representative

Mr. A.C. Gilpin,  
Special Adviser/Chief,  
East and Southern Africa Division,  
Regional Bureau for Africa,  
UNDP,  
NEW YORK.

RECEIVED

24 DEC 1974

HR/AB/OTC

✓ cc: Chief, *Phy.* Human Resources Section, United Nations Office of Technical  
Co-operation, NEW YORK. *AB.*





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT  
PROGRESS REPORTPROJECT NUMBER  
LES/72/044AGENCY  
UNOTCREPORTING PERIOD  
April 1974  
- Sept. 1974FORM A  
SUMMARY

COUNTRY AND PROJECT TITLE:

LESOTHO

DURATION

3 years

UNDP BUDGET (\$US)

90,000

ADVISE TO THE CHIEF WATER &amp; SEWAGE ENGINEER

DATE PROJECT  
APPROVEDSeptember,  
1974

START OF FIELD WORK

COMPLETION OF FIELD WORK

SCHEDULED

21 Sept 72

ACTUAL

21 Sept 72

ORIGINAL EST.

20 Sept 74

CURRENT EST.

20 Sept 75

TRIPARTITE REVIEW?

YES ☐NO ☒

DATE: 4 Nov. 1974

## Summary of Project Implementation

a) Project Activities The project consisted of generally helping and co-ordinating with the Chief Water & Sewerage Engineer in all of his duties. Most of the time was spent on development work on the infrastructure of the townships although a fair amount of the time was spent on trying to obtain funds for both development and maintenance work.

b) Major Problems Once again the main difficulty was the shortage of finance which made logical planning difficult. However the new Controller of Works Services has taken this up with the Ministry of Finance and assurances have been given that these difficulties should not occur again.

On the staff side the decision of two key Senior Technical Officers to leave has caused problems, but the United Nations Volunteer Engineers who have been applied for should solve these if they arrive in the near future.

c) Project Achievements

- (1) The continuous operation of reliable and safe water supplies and the continuous removal of sewage despite the difficulties.
- (2) The continued good progress of Maseru Water Works construction and the start of construction on Mohales Hoek & Teyateyaneng.
- (3) The preparation of applications for aid for Water Supplies and sewage schemes which it is thought will bring in aid amounting several million rands.

d) Overall Status The project is progressing fairly well in that:-


- (1) In spite of difficulties the Water Supply and Sewage Disposal Services given to the public are increasing at an accelerating rate, and
- (2) Major projects for further development are being prepared with every indication that external finance will be available to implement them.

NAME OF PROJECT MANAGER/EXPERT AND DATE

FORMS SUBMITTED (CHECK)

☒ A ☒ B ☒ C ☒ D ☒ E-1 ☒ E-2 ☒ F ☒ G ☒ H ☒ I-1 ☒ I-2



	UNITED NATIONS DEVELOPMENT PROGRAMME			FORM B
	PROJECT PROGRESS REPORT	PROJECT NUMBER LES/72/044	AGENCY UNOTC	REPORTING PERIOD April 1974 - Sept 1974
				GENERAL ACCOUNT

## General Account of Project Implementation

### A) PROJECT ACTIVITIES

#### 1 Advise on operation & Maintenance of Existing Water Supply and Sewage Disposal Schemes

The period covered by this report is mainly the time of low demand on the water supply services. The schemes have continued to operate and produce the amounts of water needed. An increase about 12% over the previous years allocation, was made in the maintenance funds budgeted for the division for the financial year April 1974 to March 1975. Serious difficulties were however caused by the fact that only a portion of this money - about 25% - was released at the beginning of the financial year to cover three months work. This release was accompanied by a strict instructions that no orders which would overcommit these funds should be placed. A further 20% or so was then released in July to cover the next three months work. As a result of this the division was living from hand to mouth. The Chief Water Engineer was unable to place orders for spares, materials etc. with long delivery periods, which would be needed for the second half of the year. In August I noted in writing to the Chief Water Engineer that, as far as I could see, a breakdown of the services was inevitable by the end of the year - the period of peak demand - unless something was done immediately. The new Controller of Works Services took the matter up with the Ministry of Finance and funds were very soon released. A verbal assurance was also given by the Ministry of Finance that the situation will not occur again.

Maintenance work has also been delayed as the funds allocated for this year in the British Aid Project "Upgrading of District Water Supplies", mentioned in my last report, have not yet been released. These funds were to be spent on the re-roofing of virtually all of the reservoirs in the country. As a result no progress has been made on this part of the work.

A further difficulty experienced has been that the Senior Technical Officer in charge of maintenance - a British contract officer who was expected to stay for another two year contract decided not to accept it. This occurred just as Maseru Water Works was due to be commissioned and caused some difficulties. However the works are all running and it is hoped that when the U.N. Volunteer Water Engineer, who has been applied for, arrives the staff position will be easier.

#### II Advise on design & construction of extensions to existing Water Supply & Sewage Disposal Schemes

Once again this work has been mainly concentrated on the Maseru Water Supply Design and Construction and the Maseru Sewerage Report.



The Water Supply is progressing well. The expansion of the pumping and treatment facilities has been completed and only pipelaying remains. It is expected that this work will be completed within the next year.

The Sewerage Report on Maseru has been completed and a project has been submitted to the United Kingdom to finance the construction stage.

The production of departmental surveys and small designs has been made difficult by the fact that this year's funds to cover the work have not yet been released. Also the Senior Technical Officer Design, a contract officer, who was expected to stay for another two year contract, decided not to accept it.

### III Advise on the Design and Construction of New Water Supply and Sewage Disposal Schemes

Once again the two new water supply schemes - Mohale's Hoek and Teyateyaneng have been seriously delayed due to funds not being available to the branch.

The design of the new sewerage schemes for the eight district headquarters is continuing, being carried out by the OPAS Sewage Design Engineer.

### IV. Advise on the Routine Administration of the Department

The administration of the department has continued and most of the energies in this direction have been concentrated in overcoming financial problems. These have taken up a large proportion of the time.

### V Assist in the Preparation of Project Documents

In the course of the reporting period the following project documents have been prepared:-

- a) An application to the United Kingdom for R1,231,000 to finance the design and construction of a sewage treatment works and



main trunk sewers for Maseru.

b) An Application, including Draft Terms of Reference, for the financing of Consultancy Services to study extensions to existing and construction of new water supplies in nine towns in Lesotho. This was carried out in conjunction with Kreditanstalt für Wiederaufbau, Frankfurt-am-Main.

c) A Project Document, including Terms of Reference, for an application to the African Development Bank for a feasibility study into stage III of the development of the water supply to Maseru, the capital of Lesotho. This was prepared in conjunction with Mr. Vallet, a WHO Sanitary Engineer acting on behalf of the African Development Bank.

#### Additional

Training The in service training of staff technical assistants continued throughout the period as did the training of "daily paid" trainer tracer, draftsmen & surveyor assistants employed in the division. This latter activity has been greatly hindered as the funds out of which salaries, materials, etc. are paid have not yet been released.

The IVS volunteer who is overseeing this drawing office training has decided not to stay after next March. As a result of this the U.N. Volunteer Engineer/Drawing Office Supervisor who has been applied for is now urgently required.

#### B. PROJECT PROGRESS

In so far as the project is one to help and advise the Chief Water and Sewage Engineer it is progressing well, but the work of the Division as a whole is greatly hampered by lack of release of funds. Forward planning and continuous work, even on maintenance, is not possible as a clear indication of the required spending rate is not available.

These things add greatly to the problems of the Chief Water & Sewage Engineer who already has a heavy burden to carry as a result of the loss of his technical staff.

#### C. WORK PROGRAMME

It is thought that for the next six months the work will mainly be concentrated on

a) Design of Maseru's Sewerage and Sewage Treatment System.



- b) Construction of Maseru's water supply reticulation
- c) Planning of Maseru's future development and sources of Water
- d) Planning of District Headquarters Water Supplies and Sewerage Systems.
- e) Construction of new Water Supplies in Mohale's Hoek & Teyateyaneng
- f) Preparation of the Five Year Development plan for the division.





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

April 74  
to Sept 1974

FORM C

PROJECT  
ACTIVITIES

ACTIVITY NO.	PROJECT ACTIVITY	ACTIVITY STARTED		ACTIVITY COMPLETED		MAJOR POSITIVE/NEGATIVE FACTORS AFFECTING RESULTS OF ACTIVITIES AND IMPLEMENTATION
		SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)	
1	Advise C.W.E. on operation and maintenance of existing water supply & Sewage Disposal Schemes	Sept 1972	Sept 1972	Sept 1972	(Sept 1975)	
2	Advise on design & construction of extensions to existing water supply & sewage disposal schemes	Sept 1972	Sept 1972	Sept 1975	(Sept 1975)	
3	Advise on design & construction of new water supply & sewage disposal schemes	Sept 1972	Sept 1972	Sept 1975	(Sept 1975)	
4	Advise on the routine administration of the Water & Sewerage Division of the Ministry of Works	Sept 1972	Sept 1972	Sept 1975	(Sept 1975)	
5	Assist in the preparation of project documents to describe and support extensions to or installation of new water supply & sewage disposal schemes	Sept 1972	Sept 1972	Sept 1975	(Sept 1975)	





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM D

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

April 1974  
September 74PROJECT  
INPUTS

## UNDP/AGENCY INPUTS

	DURING PERIOD		CUMULATIVE	
	PLANNED	ACTUAL	PLANNED	ACTUAL
EXPERTS (Man-months)	6	6	24	24
SUBCONTRACTS (\$US 000)	0	0	0	0
EQUIPMENT REC'D (\$US 000)	0	0	0	0
FELLOWSHIPS (Man-months)	0	0	0	0

## GOVERNMENT INPUTS

COUNTERPART STAFF (Man-months)	6	6	24	24
SUPPORT STAFF (Man-months)	4	4	16	16
EQUIPMENT REC'D (\$US 000)	0.5	0.5	2	2
BUILDINGS, LAND (\$US 000)	0.5	0.5	2	2
CASH SUPPORT (\$US 000)	0	0	0	0
OTHER _____ (Specify)	0.3	0.3	2	2

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM E-1

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

April 1974

~~Sept~~ 1974AGENCY  
PERSONNEL

POST NO.	POST DESCRIPTION	NAME OF INCUMBENT (AND NATIONALITY)	ARRIVED (MO/YR)		DEPARTED (MO/YR)	
			SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)
I	Adviser to the Chief Water & Sewerage Engineer	ASHFORD, R.E. UNITED KINGDOM	Sept 1972	Sept 1972	Sept 1975	Sept 1975

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM E-2

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

April 1974  
Sept 1974GOVERNMENT  
PERSONNEL

POST NO.	POST DESCRIPTION	NAME OF INCUMBENT	FULL/ PART TIME	ASSUMED DUTY (MO/YR)	
				SCHED.	ACTUAL (EST.)
I	Chief Water & Sewerage Engineer	PINDA, M.T.	F	Sept 1972	Sept 1972

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

April 1974  
Sept 1974

FORM F

FELLOWSHIPS

POST NO.	FELLOWSHIP POST	DURA- TION (MOS)	NAME OF FELLOW AND COUNTRY OF STUDY	STARTED (MO/YR)		COMPLETED (MO/YR)	
				SCHED.	ACTUAL (EST.)	SCHED.	ACTUAL (EST.)
	NONE						

REMARKS:





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM G.

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

April 1974  
Sept 1974

EQUIPMENT

EQUIPMENT	DELIVERY (MO/YR)		REMARKS
	SCHED.	ACTUAL (EST.)	
NONE			





## UNITED NATIONS DEVELOPMENT PROGRAMME

FORM H

PROJECT PROGRESS  
REPORT

PROJECT NUMBER

LES/72/044

AGENCY

UNOTC

REPORTING PERIOD

April 1974  
- Sept 1974

REPORTS

TITLE OF REPORT, PAPER, ETC.

REMARKS

NONE





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORTPROJECT NUMBER  
LES/72/004AGENCY  
UNOTCREPORTING PERIOD  
April 1974  
- Sept 1974FORM I-1  
LONG TERM  
TRAINING COURSES

	DURATION (YRS.)		PREP. YEAR OF STUDY	1ST YEAR OF STUDY	2ND YEAR OF STUDY	3RD YEAR OF STUDY	4TH YEAR OF STUDY	5TH YEAR OF STUDY	TOTAL
I. NUMBER OF STUDENTS ENROLLED BY FIELD OF STUDY AS OF <u>September 1974</u>									
All Fields of Study		P*							0
		A†		1					1
Field of Study I:		P							0
<b>Civil Engineering</b>		A		1					1
Field of Study II:		P							
		A							
Field of Study III:		P							
		A							
Field of Study IV:		P							
		A							
Field of Study V:		P							
		A							
II. NUMBER OF STUDENTS WHO COMPLETED TRAINING AS OF <u>September 1974</u>									
Total Number During Reporting Period		P							0
		A							0
Total Number Since Start of Project		P							0
		A							0
Total Number of "Dropouts" Since Start of Project									0
REMARKS:									
<p>No plans for long term training courses were included in the project but one local officer from the Water Division - A Higher Technical Officer, was sent to Canada on a course leading to a Civil Engineering Diploma and entered the first year in January, 1974.</p>									

\*P = PLANNED

†A = ACTUAL





## UNITED NATIONS DEVELOPMENT PROGRAMME

PROJECT PROGRESS  
REPORTPROJECT NUMBER  
LES/72/004AGENCY  
UNOTCREPORTING PERIOD  
April 1974  
- September  
1974FORM I-2  
SHORT TERM  
TRAINING  
COURSES

TRAINING ACTIVITY	DURATION	DATE STARTED (MO/YR)	DATE COMPLETED (MO/YR)	NUMBER OF PARTICIPANTS		
				PLANNED	STARTED	COMPLETED
A) In service training of technicians(NS)	6 months	April 1974	Sept. 1974	4	4	4
B) Training of "temporary" staff employed as trainee tracers & draftsmen(NS)	6 months	April 1974	Sept 1974	3	6	6 contin- uously employed
REMARKS:						



ENCLOSURE ATTACHED



LESOTHO

RECEIVED IN RECORDS CONTROL	
12 FEB 1974	
ACTION TO:	
1. <i>Mr. Watts</i>	
2. <i>Re. Claudius</i>	<i>14/2/74</i>
3. <i>R.F.</i>	
<input checked="" type="checkbox"/> PUT AWAY	
<input type="checkbox"/> BRING FORWARD	
INITIALS	<i>R.F.</i>
ON	DAY MONTH YR.
TO:	
<u>LESOTHO.</u>	

P.O. Box 813,

Maseru,

LESOTHO.

4th February, 1974.

The Chief,  
Africa Division,  
U.N./O.T.C.  
NEW YORK

14. FEB. 1974

Dear Sir,

R.E. ASHFORD REPORT ON ASSIGNMENT.

Please find enclosed three copies of my second report on my assignment to Lesotho as Adviser to the Chief Water & Sewerage Engineer.

Yours faithfully,

*R.E. Ashford*  
R.E. ASHFORD.

CC. RESIDENT REPRESENTATIVE  
U.N.D.P. LESOTHO.

*cc. Alagappan for comment*  
*WF Registry*

OFFICIAL CORRESPONDENCE	CONTROL NO.
MUST BE RT TO RECORDS CONTROL, ROOM 2074	<i>2/210</i>



RESTRICTED

PROGRESS REPORT NO. 2

R. E. ASHFORD.

ADVISER TO CHIEF WATER & SEWAGE ENGINEER.

The writer of this report is solely responsible for the views expressed in it. Copies of the report have been submitted to the Office of Technical Co-operation of the United Nations which may in due course communicate its own assessments and recommendations to the Government.

20 JANUARY 1974.



ASSIGNMENT AS ADVISER TO CHIEF WATER AND SEWAGE  
ENGINEER.

PROGRESS REPORT NO.2

TERMS OF REFERENCE:

The terms of reference of this assignment can be summarised as follows:-

To advise the Chief Water and Sewage Engineer on

- (i) The operation and maintenance of existing water supplies and sewage schemes:
- (ii) The planning, design and construction of new water supplies and sewage schemes:
- (iii) The administration and organisation of the water & Sewage Department:

And to assist in the training of local staff.

PROPOSED WORK PROGRAMME:

The proposed work programme for the whole of this project was set out in Progress Report No.1. The proposals for the period covered in this report were as follows.

"Second Six Months": (March 1973 to September 1973). At the beginning of this period - the first two months or so - it is expected that a fair amount of help will have to be given on the maintenance and operations side, as plans for the whole of the financial year will have to be made. After this, the main emphasis of work will move to the setting up of a design and construction team for the Water Branch.

On the design side this will involve the recruitment and training of tracers and drawing office staff to work under the newly recruited expatriate senior staff. On the construction side it will consist of recruiting training and setting up a direct labour construction organisation."



PROGRESS IN THE SECOND SIX MONTHS OF THE PROJECT

General. The Chief Water and Sewerage Engineer Mr. M.J. Pinda was absent from the country for two months in this period. As the acting Chief Water Engineer arrived in Lesotho only two days before Mr. Pinda's departure it was necessary for me to act as virtual head of department during this time.

Operations & Maintenance: Both the Water and Sewerage sections of the department continued to operate without any serious difficulties. The pumping and treatment records of the various schemes were reorganised and maps of the water reticulations in all districts were completed.

Accounting: The accounting records were altered so that expenditures and incomes of each individual water supply and sewage ~~sch~~ scheme were shown separately. This will enable the Chief Water and Sewerage Engineer to see clearly which schemes are profitable and which are being subsidised. As expected, revenue from both water and sewerage considerably exceeded the estimated revenues.

Planning: The Sewerage Design Engineer, Mr. E.B. Andersen an OPEX officer, arrived in May and started work on the preparation of reports on the sewerage of the eight townships.

Design & Construction: The Water Engineer also arrived in May and started work on the design of the next stage of Maseru Water Supply. He has also taken charge of the small direct labour construction unit which was formed. At the start of this period tenders for a pipelaying contract were received and thought to be excessively high. After discussions with the Chief Water & Sewage Engineer and the Tenders Board it was decided to do the work departmentally. This has resulted in a considerable saving to Government as well as providing training for local labour.

In addition to the above the main design and construction work carried out was on the upgrading of the district water supplies. All of the design and drawing office work is being carried out by the small drawing office which has been set up in the branch.



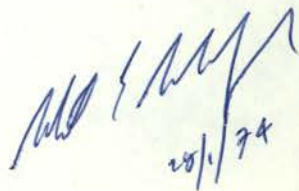
The construction is being done departmentally by the mountain building teams and Hydrology department of the Ministry of Works.

General: Development work, i.e. design and construction was very seriously hampered during this period by the fact that funds for most development projects were not available from 31 March (the end of the financial year) until Mid June.

Training: The Chief Water Engineer Mr. M.T. Pinda was elected to the Institution of Water Engineers as a member during this time and also attended a two month course on the planning of development projects at the Economic Development Institute in Washington.

Mr. L.H. 'Monahali, a Higher Technical Officer in the branch, was sent to Canada on a four year course leading to a Diploma in Civil Engineering.

In March, Mr. B.L. Roebuck, a VSO volunteer surveyor/draftsman arrived and it was decided to set up a small drawing office in the branch. It was decided that, with the resources of the branch and the general labour availability, the best way that this could be done was by recruiting some school leavers and training them whilst at work. Therefore in June when funds became available equipment was ordered and three trainee draftsmen/surveyors and three trainee tracers were employed on a daily paid basis. These trainees are all undergoing a course in draftsmanship, tracing and elementary surveying. At the end of September they were showing considerable progress. It is hoped that in future this small unit, together with the new Water Engineer (Design) will be able to handle most of the smaller design work in the branch.

  
20/1/74



ENCLOSURE ATTACHED

5 APR 1973  
SECTION FOR AFRICA

APR - 21973  
ACTION

P.O. Box 813,  
Maseru, Lesotho.  
29th March, 1973.

The Chief,  
Africa Division,  
UN/OTC.,  
NEW YORK.

TO:	<i>Mr. Watts</i>
1	<i>Mr. Kanders</i>
2	
3	
<input checked="" type="checkbox"/>	Action Completed
<input type="checkbox"/>	Acknowledged
<input type="checkbox"/>	No Action Required
INITIALS <i>LF</i>	

TE432/21 LESO(9)

Dear Sir,

R. E. ASHFORD - Report on Assignment  
20 March, 1973.

Please find enclosed three copies of my first report on my assignment to Lesotho as Adviser to the Chief Water and Sewage Engineer.

Yours faithfully,

*R. E. Ashford*  
R. E. ASHFORD

cc: Res. Representative,  
U.N.D.P.,  
P.O. Box 301,  
Maseru. Lesotho.

cc. Report.



RESTRICTED

PROGRESS REPORT NO. 1

R. E. ASHFORD.

ADVISER TO CHIEF WATER & SEWAGE ENGINEER.

The writer of this report is solely responsible for the views expressed in it. Copies of the report have been submitted to the Office of Technical Co-operation of the United Nations which may in due course communicate its own assessments and recommendations to the Government.

20 MARCH, 1973.



ASSIGNMENT AS ADVISEE TO CHIEF WATER AND SEWAGE  
ENGINEER.

PROGRESS REPORT NO.1

TERMS OF REFERENCE:

The terms of reference of this assignment can be summarised as follows:-

To advise the Chief Water and Sewage Engineer on

- (i) The operation and maintenance of existing water supplies and sewage schemes:
  - (ii) The planning, design and construction of new water supplies and sewage schemes:
  - (iii) The administration and organisation of the Water & Sewage Department:
- And to assist in the training of local staff.

PROPOSED WORK PROGRAMME:

As set out in the Project Memorandum all of the above operations are programmed to run continuously and concurrently throughout the duration of the project. It is however expected that in fact the programme will be as follows.

First Six Months: (September 1972 until the end of the financial year in March 1973). During this period most of the emphasis will be upon the operations and maintenance side of the work. The new occupant of the post will be taking over and spending the bulk of his time taking decisions upon matters which have been strongly influenced by the actions and decisions of his predecessor. The senior staff for the design and construction departments will be recruited during this period.

Second/.....



Second Six Months: (March 1973 to September 1973). At the beginning of this period - the first two months or so - it is expected that a fair amount of help will have to be given on the maintenance and operations side, as plans for the whole of the financial year will have to be made. After this, the main emphasis of work will move to the setting up of a design and construction team for the Water Branch.

On the design side this will involve the recruitment and training of tracers and drawing office staff to work under the newly recruited expatriate senior staff. On the construction side it will consist of recruiting training and setting up a direct labour construction organisation.

Second Year: (September 1973 - September 1974). During this period it is hoped that virtually no time except training sessions with staff will have to be spent on operations. In this year the new Maseru Water Works will be commissioned and the organisation of personnel training and record keeping will have to be arranged. On the design and construction side things should be moving well and a fairly large expatriate design staff will be at work either on construction or design work on water supplies and sewage schemes for all of the townships of Maseru. This will require much detailed supervision on which the Chief Water and Sewage Engineer will require help and advice. In particular the drafting of conditions of contract, specifications, bills of quantities and schedules of prices.

PROGRESS TO DATE:

General: On 20 September 1972 my appointment as OPEX Chief Water and Sewage Engineer was converted to Adviser status. A few days later Mr. M. T. Pinda the Assistant Water Engineer was promoted to the post with effect from 20 September. On 11 October Mr. Pinda went to London to sit for his final professional qualification and returned to Lesotho on 25 October.

In view,.....



In view of this I continued to act as virtual departmental head until this date. At this stage Mr. Pinda took over all responsibilities.

OPERATIONS AND MAINTENANCE:

The take over went smoothly despite the fact that it took place at the start of a dry period more severe than any recorded in the last fifty years. This made it necessary to restrict the use of water in the capital and four of the townships. In four other townships periods of water rationing were imposed. This put a heavy strain on the operations staff but all consumers received clean potable water for at least six hours each day.

The newly recruited Senior Technical Officer (Operations) has continued with the work of installing metering and gauging equipment, the improvement of records and the preparation of plans and maps of reticulations. The World Health Organisation Laboratory Technician has now arrived and regular samples from all supplies are now examined for bacterial contamination.

The responsibilities of this part of the Branch have increased with the commissioning of two new water works at Quthing and Mokhotlong which previously had chlorinated spring supplies.

ACCOUNTING:

The financial side of the operations of the schemes is working satisfactorily in that both Water and Sewage revenue collection is expected to exceed the estimated revenues in the Government budget. Water rates in the whole of the country have been standardised and this has been achieved without any disruption of collections.

PLANNING DESIGN & CONSTRUCTION:

Planning: During this period the following Project Memoranda were submitted for the financial year 1973-74 -

(i) Construction/.....



	R
(i) Construction of Mohale's Hoek Water Supply	162,000
(ii) Construction of Teyateyaneng Water Supply	162,000
(iii) Upgrading of Water Supply Instal- lations in District Headquarters	75,000
(iv) Design and Construction of Peka Water Supply	30,000
(v) Preliminary Investigation and Design of Water Supply and Sewage Projects	11,420
(vi) Qacha's Nek Water Supply Extension	45,000

Design: No design work was carried out departmentally during this period due to lack of staff but consulting engineers were working on the following schemes under the general supervision of the Department.

- (i) Teyateyaneng Water Supply
- (ii) Mohale's Hoek Water Supply
- (iii) Maseru Water Supply
- (iv) Maseru Sewage Works

Construction: The major construction work of the Department, the new Maseru Water Works was being constructed by contract with departmental supervision. The construction work which was carried out departmentally was

- (i) The new Mokhotlong Water Works
- (ii) Various sewage extensions for  
housing estates
- (iii) Drought relief water supply  
extension at Quthing.

During the period the Senior Technical Officers (Design) and (Construction) arrived.

At present /.....



At present both are engaged upon the supervision of construction but as from 1st April the design section will start work on departmental designs of Maseru Water Supply and Maseru Sewage Schemes.

#### GENERAL:

The development work of the Department has been hampered by the lack of release of funds in the period under review but there are indications that the situation will be better in the next financial year.

#### TRAINING:

The Chief Water Engineer Mr. M. T. Pinda who went to London to sit the examination for his professional qualification in October 1972 passed, and was elected as a Member of the Institute of Civil Engineers in January, 1973. He has now applied to be admitted to the Institution of Water Engineers as a Member and is awaiting the reply.

Mr. L. H. 'Monahali the <sup>next</sup> senior Mosotho national in the Branch who is a Higher Technical Officer has had his name put forward for a Canadian Scholarship. It is hoped that he will attend a four year course in Civil Engineering starting at the end of this year.

Four trainee technical assistants have spent three months in the Branch to gain experience. Two of these were placed under the Senior Technical Officer (Design) and helped in the building of the new water works. The obtained experience in the supervision of construction and were taught to measure and set out simple works. The other two trainees worked under the Senior Technical Officer (Operations) and spent their time working in the smaller townships. They were taught to operate a waterworks and control the quality of the output.

They were/.....



They were also engaged on the preparation of plans showing the positions and sizes of pipelines and associated works.

*MA 1/11/73*

R. E. ASHFORD.

20 March, 1973.