

SECRETARIAT

0491/ C

(Formerly)

0  
4  
9  
1  
/  
C

STANLEY WATER SUPPLY.

NEW HIGH LEVEL TANK.

CONNECTED FILES.

NUMBER

0491

Stanley Water Supply.

0491/A.

House Connections, Ordinance No 4 of 1927.

0491/B.

Appoint. of caretaker, water filtration plant.

I/210/62

New water tank & fittings

No.

MEMORANDUM

It is requested that, in any reference to this memorandum the above number and date should be quoted.

12th March, 1962.

To: The Honourable,  
The Colonial Secretary,  
STANLEY.

From: The Superintendent of Works.

Stanley, Falkland Islands.

SUBJECT:- Braithwaite Water Supply Tank  
Murray Heights.

During the course of investigating the possibilities of increasing the water storage and pressure, to approximately  $\frac{1}{3}$  of Stanley. I found that the Braithwaite 100,000 gallon Murray Heights Tank was in a very serious state of repair.

I would like to bring to notice that due to the state of the tank  $\frac{1}{3}$  of the town could be out of water at any time, with no immediate means of giving a supply from any other source. I had thought that I could make the necessary repairs to relieve the situation, but on further investigation I found that certain flanges on the metal panels were in such a bad state that to work on them would only jeopardize the situation, I would like to suggest that immediate consideration be given to the purchase and erection of a new 150,000 gallon tank, to be erected adjacent and to the South of existing tank.

The ground mentioned, south of existing tank, I understand is, Crown land leased to private holders.

B.A.S. were recently supplied with a 10,000 gallon tank at a cost of approximately £800. going by that figure a 150,000 Gl. tank would cost in the region of £800 x 15, (£12,000). Plus concrete foundations £2,000 and to increase pressure to the back end of Stanley, a new run of approximately 1,800 ft of water main plus service tapping etc £2,000 giving a total of £16,000.

This is a rough estimate and I would suggest that we allow £20,000 as a nearer figure. Foundation drawings for the support of tank and true estimate of tank etc. would need to come from Crown Agents & Braithwaite & Structural Ltd.

*P. P. P.*  
Supt. of Works.

2

S.E.  
S.P.W. spoke to me about this & showed me the tanks. Many of the bolts have rusted away. The only other alternative would be to make a reservoir on Satters hill high enough to supply the town without recourse to this tank but I do not suppose that would be any cheaper I think we will have to consult Crown Agents at once and inform Ex Co. Perhaps S.E. would like to speak to S.P.W.

12/3/62.

H. C. S.

3.

I inspected the high level tank yesterday with the S.P.W., and I agree with him that corrosion is so bad on the flanges on the metal panels underneath the tank that repairs are impossible. We should ask the Crown Agents at once for an estimate of the cost of a 150,000 gallon tank.

2. The S.P.W. thinks that the new tank could be erected immediately to the south of the present tank. I understand that this land is at present leased, and the site would have to be acquired. Would you please go into this aspect of the matter.

3. We should inform Ex.Co. of the position at our meeting on March 20.

March 13, 1962

RF

U

1. Ask Crown

2. note for Ex Co

3. Files re 19/73 29/71 & 152/70

being found

5/16/3/62.

GOVERNMENT TELEGRAPH SERVICE

FALKLAND ISLANDS

SENT

5.

Wt P2809 5/61

Number	Office of Origin	Words	Handed in at	Date
	Psy			17.3.62
To				
etat CROWN LONDON				HOA/c

No. 72. GRATEFUL YOU TELEGRAPH EARLIEST ESTIMATED INITIAL  
 COST OF 150,000 GALLON BRAITHWAITE WATER TANK AND FITTINGS

BU 28.3.62

COLONIAL SECRETARY

Time HLB/TB

Reply at 6.

DECODE.

No. 46.

TELEGRAM.

From Crown Agents, London.

To Colonial Secretary, Stanley.

Despatched : 11th April, 19 62. Time : 1737

Received : 12th April, 19 62. Time : 1030

5

Your telegram March 17th.

Braithwaite tank 156,000 gallons £4,482 c.i.f.  
Pipes and valves excluded. Extra for cover £1,000  
c.i.f.

Crown

P/L : LH

7  
5 P/L for information  
min is better than we expected  
But should we take advantage of  
welders coming from Atkin's store  
to build up a welded tank?  
5-20/4/62

No.

MEMORANDUM

It is requested that, in any reference to this memorandum the above number and date should be quoted.

7th May, 19 62.

From: The Superintendent of Works

To: The Honourable,

The Colonial Secretary,

Stanley, Falkland Islands.

STANLEY.

SUBJECT :- New Water Tank.

With reference to High Level Water Supply tank. I think that with the information we have, as to the cost of a Braithwaite 156,000 gallon tank and that of the all welded tanks S.P.E.D. intends to have erected, there is little difference.

I feel that we should erect a Braithwaite for the water supply, which as you know cannot be delayed too long.

S.P.E.D. mentioned the all welded tank, having in mind maintenance and the fact welders would be coming to Stanley from South Georgia to erect the fuel oil tanks, that in itself is still under consideration and I feel we should go ahead with the water supply tank as soon as possible.

I would suggest Crown Agents be asked to order immediately a Braithwaite 156,000 gallon tank, with centre baffle wall so as to be able to make two separate tanks, enabling one half to be emptied for maintenance and inspection while the other half is still in operation.

Owing to the lack of pressure at South East end of Stanley the following pipes and fittings should be ordered so that the work can be carried out with the erection of new tank:- Approximate price of pipes and fittings £600.

- 6 3" Flanges iron
- 6 3" Gate valves flanged (iron)
- 2 6" x 6" Tee screwed gland.
- 4 3" Tees screwed gland.
- 6 3" Collers screwed gland.
- 6 6" " " "
- 1800 ft. 3" Piping screwed gland.
- 6 3" Bends (90°) screwed gland.
- 8 3" " (90°) flanged only.
- 6 3" Piping flanged only 6ft. lgths.

Jointing paste and rings etc.

Sections of Tank to be flanged:-

2 inlets at Top 3"

3 outlets at bottom 3"

*P. Pictor*  
Supt. of Works.

9.1

S.E.

✓ 2. Above 8.

I will go into question of financial provision  
but all concerned know that this will be  
needed. (I might write to Mr. Rawlands to put him  
in the picture)

8/5/62.

11

now SPW has  
added some  
gr.

10

9.5.62

No. 0491/c



MEMORANDUM

It is requested that in any reference to this memorandum the above number and date should be quoted.

8th May, 1962

To: The Honourable,  
The Colonial Secretary,  
STANLEY.

From: The Superintendent of Works,  
Stanley, Falkland Islands.

SUBJECT :- New Water Tank.

Further to my Memo 7th May, 1962.

Information for Crown Agents as to nature of ground for foundations.

The Area is of rock outcrop with 6" of top peat and 22" clay underneath.

The height of foundations above ground level to be 6 ft.

13  
File now at S. It  
note to include  
these particulars

*A. P. P. P.*  
Supt. of Works.

8<sup>th</sup> 2/6/62

To Crown and 2012  
revised 11/2/62.

14

S.P.S.

The purchase of the tank was discussed  
& approved in SFC on Saturday.

Would you pl. put up a draft telegram  
placing the initial order & then submit confirmatory  
indent for inclusion in the next outgoing mail.

14.5.62

Recalled from S/P today.

B

23.5.62.

Minutes of the meeting of the Standing Finance Committee held  
on the 12th May, 1962.

Present : The Honourable The Colonial Secretary, Chairman.  
The Honourable The Colonial Treasurer.  
The Honourable R.V.Goss.  
The Honourable J.R.Rowlands.  
The Honourable J.T.Clement, J.P.

- 1. The minutes of the meeting held on the 12th April, 1962, were confirmed.
- 2. The following additional provision was approved :

Year of Account 1961/62

<u>Head</u>	<u>Subhead</u>	<u>Amount</u> £
X Miscellaneous	New Item Damages award - motor accident	28
XV Public Works	1. P.E's iv Storekeeper	84
XVI Public Works		
Recurrent	6. Motor Transport	300
XIX Special		
Expenditure	New Item New High Level Water Tank	6500
		6912
		6912

3. Expenditure was approved for the purchase of a new water tank but The Committee deferred the voting of funds for the erection and installation. It was agreed that estimates should first be made available for erecting the tank at a suitable site on Sappers Hill and for erecting it at a higher level on the proposed site near Callaghan Road.

Secretary.....*[Signature]*.....

Minutes confirmed  
Chairman.....  
.....

G.S.

16

SPW has asked us to suspend action as he is now considering the possibility of one reservoir on Sattens Hill to supply all our needs.

This would certainly be satisfactory but it requires a good deal of thinking out.

t

gr

23/6/62.

17

Hes

We have spoken.

18

SPW 28.5.62

We met 11.11.

gr.

Bus 29.6.62



No. \_\_\_\_\_

It is requested that, in any reference to this memorandum, the above number and date should be quoted.

**MEMORANDUM**

13th June 19 62

To: The Honourable,  
The Colonial Secretary,  
Stanley.

From: Superintendent of Works, P.W.D.

Stanley, Falkland Islands.

SUBJECT :- Murray Heights High Level Water Supply.

Please place order through Crown Agents for a 156,000 gallon Braithwaite Water Tank, base 48 feet by 44 feet with centre wall so as to make two separate tanks and tank roof cover. Also the following fittings:-

- 6 Three inch flanges iron.
- 6 Three inch Gate Valves flanged iron.
- 2 Six inch by 6 inch Tees screwed gland.
- 4 Three inch tees screwed gland.
- 6 Three inch collars screwed gland.
- 6 Six inch collars screwed gland.
- 6 Three inch Bends 90 degree screwed gland.
- 8 Three inch Bends 90 degree flanged only.
- 1800 feet Three inch piping screwed gland.
- 6 pieces Three inch piping flanged six foot lengths.
- Jointing Paste and rings etc.
- Sections of tank to be flanged for
- 2 Three inch Inlets at top and
- 3 Three inch outlets at bottom.

Request also for Foundation drawings, the nature of ground being 6 inches Peat and 22 inches clay on top of bedrock. Tank to be elevated 6 feet above ground level.

*R. Rutton*  
Supt. of Works.

20

*apw*  
*W.*

*Stc*  
*slw.*

21

*wd. You pl. submit formal indent.*

*15.6.62*

23

DECODE.

TELEGRAM SENT.

From GOVERNOR to SECRETARY OF STATE

Despatched : 20.6.62      Time : 0900      Received :      Time :

No. 82. Necessary replace water tank which stores supply for section of Stanley existing tank beyond repair and water pressure insufficient for higher part of Stanley.

Proposed to order tank to store 156,000 gallons. Cost excluding pipes and erection £6,500. Site for tank not yet chosen and additional funds will be required when installation costs known. The Standing Committee on Finance have voted initial £6,500 and I would appreciate your approval to incur this expenditure.

Grateful reply by telegram.

Officer Administering the Government

See 24

But 3.7.62  
from

KIV Indikat bc.

P/L : TB

DECODE.

24

No. 63.

TELEGRAM SENT.

From SECRETARY OF STATE to GOVERNOR

Despatched : 29.6.62 Time : 1800 Received : 30.6.62 Time : 1030

273

No. 60. Your telegram No. 82. Water tanks.

Expenditure £6500 approved. Assume this is under heading XIX special expenditure PWD.

Secretary of State.

Reply at 26

25

Assumption is correct - N.F.A. note

but we should note always to quote Head in such cases in future

G.T.C. : TB  
Copy to : Treasury.  
(Intld.) HLB

Bn 31. 12. 62. (to KIV)

3/7/62

F. I. ref: 0491/C

C. O. ref:

26

SAVING TELEGRAM.

*From:* The Officer Administering the Government of the Falkland Islands.

*To:* The Secretary of State for the Colonies.

*Date:* 7th December, 1962.

No. 191 SAVING. COLONY

Water Supply Storage Tank.

Your telegram No. 60 of 29th June, 1962.

The additional provision of £6,500 is for the current financial year and the Head of Expenditure should therefore be XX. The omission of this information from my telegram No. 82 of 20th June, 1962, is regretted.

GOVERNOR

Bu 31 12 62

27.

SPW

Please see memo 3 of 15.

(Others he mentions has all been  
investigated. But we will have  
to refer further to SFL

J 3/12/62.

24

23

Hon.Col. Sec,

I have the honour to report on the plan of erecting the new water tank on Sapper Hill.

Investigating the possibilities, I find we would gain nothing in the improvement of the water problems for the whole of Stanley, unless a new concrete underground storage tank was built to hold say 700,000 Gls about two weeks supply.

The pumps now in use in the filtration plant are being used to their maximum head of 150ft and would need to be changed for pumps with a working head of 250ft. It would also mean a run of approximately 1½ to 2 miles of water line.

The whole project at a rough estimate would cost no less than £25,000 to £30,000, and with our present labour force would be out of the question.

The extra head we plan to give the new tank at Murray Heights, should be sufficient to give all pressure needed in the Davis Street area.

*R. Pluton.*

Supt. of Works.

5th January, 1963.

29

*Copy to ...*

*q sfc  
Jr.*

30

*Draft ofc pl*

*[Signature]*

*11 1 63*

SMP 0491/C  
15th January, 1963.

MEMORANDUM NO. 1/63 TO STANDING FINANCE COMMITTEE

New Water Tank on Sapper Hill

28

Honourable Members will recall that it was decided that further consideration should be given to the question of erecting the new water tank at a suitable site on Sapper Hill. The Superintendent of Public Works reports as follows:-

I have the honour to report on the plan of erecting the new water tank on Sapper Hill.

Investigating the possibilities, I find we would gain nothing in the improvement of the water problems for the whole of Stanley, unless a new concrete underground storage tank was built to hold say 700,000 Gls about two weeks supply.

The pumps now in use in the filtration plant are being used to their maximum head of 150 ft. and would need to be changed for pumps with a working head of 250 ft. It would also mean a run of approximately 1½ to 2 miles of water line.

The whole project at a rough estimate would cost no less than £25,000 to £30,000 and with our present labour force would be out of the question.

The extra head we plan to give the new tank at Murray Heights, should be sufficient to give all pressure needed in the Davis Street area.

*[Handwritten Signature]*  
COLONIAL SECRETARY.

DRI/LH

Sent to all members today.

Hl.  
16/1/63

Recy. 16. 1. 63 (S.F.C. Meeting)

JPW.

Information is required please as to the number of pounds per square inch pressure that we shall get from the new high level tanks; i.e. the minimum. I know nothing about such things myself but am told that there are formulae for calculating such things which can be looked up in books. There is still anxiety lest having spent this money on the new tanks we will find we failing to give a satisfactory service.

If we cannot satisfy these fears would it be possible to build a higher tower?

2/3/63

Another point which has been raised is whether the pressure will be sufficient for the Fire Brigade and perhaps you would speak to Messrs Evans about this if you have not done so.

Hon. Col. Sec.

The formula for working out the pressure is:-  
The head of water in feet multiplied by  $\cdot 4331$  = pressure  
in lbs per sq inch (P.s.i.) at  $62^{\circ}\text{F}$ .

The pressure on Davis St. is approximately  
15 P.s.i. which is not adequate for fire fighting and in  
any case the water from the high level tank would only  
last about an hour and a half.

The money was spent on the new tank because  
the old one is in such a bad state of repair that it  
could burst any day, throwing  $\frac{1}{3}$  of Stanley out of water  
and as said before with no immediate means of supply.

With the pumps available at the Water  
Filtration Plant it would be impossible to raise the head  
more than a few feet, giving an extra pressure of 3 to  
5 lbs P.s.i.

*R. Pulton.*

Supt. of Works.

6th March, 1963.

Hon. Col. Sec.

No. 12. According to indent No. 210/62 D.D.  
18/6/62. and specification £12. 10. -d. has been allowed  
for foundation Drawings which I have not as yet received.

*See 2 of 20/62  
belong to Crown  
22/3/63*

*R. Pulton.*

Supt. of Works.

21st March, 1963.

A.C.S.

*Returned Thank you.*

*R. Pulton. S.P.N.*

*26/3/63.*

DECODE.

TELEGRAM.

From Colonial Secretary, Stanley.

To Crown Agents, London.

Despatched . 27th March, 1963. Time :

Received : 19 Time :

No. 62. Indent 210/62 foundation and erection drawings not received please expedite.

Colonial Secretary

P/L : HLB/IH

Original in I/210/62  
Copy in 0491/8  
Copy to S/PW

Kiv  
BU 10.5.63

DECODE.

TELEGRAM.

No. 49.

From Crown Agents, London.

To Colonial Secretary, Stanley.

Despatched :	29th March,	19	63.	Time :	14.25
Received :		19		Time :	

Your telegram 27th March Indent 210/62. Foundation drawing despatched 6th March. Amended foundation drawing despatched 7th March. Both air post. Remainder erection drawings despatched surface mail 6th March.

Crown

P/L : LH

Original in I/210/62  
Copy in O491/c  
Copy to S/PW.

SMP 0491/C  
2nd May, 1963.

MEMORANDUM NO. 2/63 TO STANDING FINANCE COMMITTEE

New High Level Tank

The question of the arrangements for installing this tank have been the subject of discussion in SFC and no final decision has yet been taken of the subject. The tank has now arrived and a decision will have to be made at our next meeting with regard to its installation. The proposal is to install the tank at a level 7 feet higher than the present tank. It is not possible to raise it more than that because the pump which pumps the water from the Filtration Plant will not lift it any higher. The ideal solution of making a new reservoir on Sapper Hill has to be ruled out owing to the high cost and the impossibility of us undertaking such a big job.

The pressure on Davis Street now is reckoned to be 15 pounds per square inch and it is reckoned that with the new tank it will be possible to increase this pressure by 3 to 5 pounds per square inch.

It is reckoned that if all the internal pipes in the buildings are in good condition this should give a reasonably satisfactory flow.

It is reckoned that the chances of this proving satisfactory justify the expenditure which will be incurred in raising it of about £2,000.

The only other possibility appears to be to build a water tank at a considerably higher level and install a new pump this would cost a great deal more than £2,000.

2. It is therefore suggested that the expense of raising the tank by 7 feet will be justified.

3. With a view to saving time at our meeting I propose unless any members object, in which case I would be glad if they would let me know as soon as possible, to constitute a subcommittee consisting of Mr. Goss, Mr. Rowlands, the Honourable Colonial Treasurer and myself to discuss this matter with the Superintendent of Works before the meeting, with a view to presenting the meeting with as clear and simple a picture as possible of the points involved.



COLONIAL SECRETARY.

RHEM/LH

Copies sent to members today.  
Spate copies sent to A.T.

44 9/5/63.

BU 21.665

0491/C.



SAN CARLOS  
FALKLAND ISLANDS  
SOUTH AMERICA

13th May, 1963.

Sir,

I have your memorandum No 2/63 to hand and the proposed committee is quite in order as far as I am concerned. This is primarily a Stanley Town problem and it is fitting that the Stanley members should deal with it. I trust that they will be able to reach a satisfactory conclusion.

22 in 0355/P  
Ack. was only sent after letter had been filed & while it was received on 3rd May

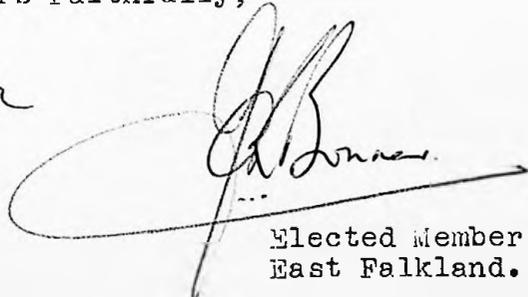
2 I note that you have received my letter of the 29th April, but surely before the 11th May which I see is the date of acknowledgement. The letter left here on the 30th April. I look forward to your early reply.

3. I understand that Mr Taylor's Report on the Educational Facilities in the Colony has been received. I would be most grateful if you could arrange to have the Report circulated to members of Legislative Council before the next Council Meeting, preferably as soon as possible so that we may have ample time to study it.

Yours

Yours Faithfully,

*Werner*  
*Werner*



Elected Member  
East Falkland.

The Honourable  
The Colonial Secretary,  
Secretariat,  
Stanley.

Para 2 extracted to 0355/P  
Para 3 extracted to 0072/H

Ack'd H  
15/5/63.

H  
17/5/63

0491/C  
16th May, 1963.

MEMORANDUM NO. 3/63 TO STANDING FINANCE COMMITTEE

High Level Tank

39

In continuation of my memorandum No. 2/63 a scheme has now been worked out whereby it will be possible to erect the new tank on a point on Sapper Hill which will give fifty feet more head without increasing the estimate of £11,000.

2. Owing to the dangerous state of the present tank it is important to start the work as soon as possible.

3. Since the objection to the original proposal was that it might not give sufficient head it is thought that members might be content to leave this matter to the subcommittee to decide.

**Camp Members -**

I should be very grateful if you could send a message by telephone, telegram or RT as convenient saying either "I agree" or "I shall be coming in on . . . . . and would like to wait till then." Or "I consider that this should wait till we next meet at the end of May."

**Town Members -**

If convenient to you we will meet at 10 a.m. Monday.

*or*

COLONIAL SECRETARY.

RHDM/LH

Copy sent to S/W

*Sent to all members*

*HH 17/5/63  
no other  
copy but to ~~members~~*

*Wednesday*

*10.0.*

*52.*

*by phone*

## GOVERNMENT TELEGRAPH SERVICE

FALKLAND ISLANDS

SENT

42

Wt. P2809 5/61

Number	Office of Origin	Words	Handed in at	Date
	Psy			22.5.63
To				
etat MONK PEBBLE ISLAND BONNER SAN CARLOS				HOA/c

4 High Level Tank my latest memorandum 3/63 of 16th May stop Subcommittee unanimously agree to revised Sapper Hill proposal original estimate plus extra £1000 for contingencies stop Do you agree to work starting

Colonial Secretary

*holiday*

Bu 23.5.63

Time RHDH/LH

49 Perry Brown of Uland  
Agree.

PC found out for P.T.  
Alister which  
houses were to be built

12/5/22



GOVERNMENT TELEGRAPH SERVICE

45

FALKLAND ISLANDS

SENT

Wt. P2809 5/61

Number	Office of Origin	Words	Handed in at	Date
	Pay			25.5.63
To	etat MONK PEBBLE ISLAND			NOA/c

I hear that you are coming in this week Treasurer and I will be busy at meetings but shall I arrange for SW to explain scheme to you and hold up work till he has done so query All other members agree

SW info  
27.5.63

Colonial Secretary

BU 5-manor  
J.

Time RHDM/LH

46

to bank has now agreed

to SPW to carry on

R 22/5/62

No.



0491/c

489

MEMORANDUM

29th November, 19 63.

It is requested that, in any reference to this memorandum the number and date should be quoted.

To: The Honourable,  
The Acting Colonial Secretary,  
STANLEY.

From: Superintendent of Works,  
P.W.D.

Stanley, Falkland Islands.

SUBJECT:- Erection of Highlevel Water Tank.

The shortage of skilled or even semi skilled labour is creating a problem in the erection of the highlevel water tank.

I have the honour to request that H. Dihlmann, J. King and one other man be allowed to contract for the erection of the tank in their spare time.

The plumber and blacksmith, both of whom are capable are engaged on the everyday services which are more or less continuous.

A mile of trench for the water pipe mostly through rock has to be excavated and will take all our already depleted ordinary labour who will also have other tasks to perform.

The reason for the request is that it takes a certain amount of skill and conscientious workers not readily available in P.W.D. or to be found looking for work locally.

During the time it will take to excavate for, lay the water lines and other ancillary works, the erection of the tank could be completed.

*R. Pickett*  
Supt. of Works.

*BWF*

50

*A. P. W.,*

*Braithwaite tanks have been erected throughout the colony by unskilled people and I think it would be inviting strong criticism if outside help had to be engaged to erect ours. I feel that you should arrange matters within the department so that either the blacksmith or one of the plumbers undertakes the work.*

*L.G. 24.11.63*

No.

It is requested that, in any reference to this memorandum the above number and date should be quoted.

MEMORANDUM



52  
21st August, 19 68.

To: The Colonial Secretary,

From: Superintendent of Works, P.W.D.

STANLEY.

Stanley, Falkland Islands.

SUBJECT :- Braithwaite Tanks.

Re H.E's. enquiry, the High Level Tank observed is due for external painting this year, also internal painting of the Filtration Braithwaites but both are in obeyance due to heavy commitments, Government House, and all people due back from leave soon five houses in all, which are close to completing, also Tanks cannot yet be painted due to inclement weather, quick drying is essential.

*Stroyans*

Supt. of Works.