

January 1st 1912.

Mr Ed. Fletcher
Dear Sir!

I presume it is nothing but right to inform you of matters, which are of vital interest to the Guyanaca Water Co. direct.

Mr Hager, Sacket and 6 more gentlemen came out in two autos last Thursday. They gone over our work at the Diverting Dam and stayed for over an hour. It appeared to me as if they were Capitalist & Mr Hilin of the old Co. Mr Clegg and Sacket were seen several times out here at Chocolate and they are trying to get options on Mr Hendersons 160 as on Mrs Heads 160 as on Rob Alfords 126.4 acres. And on Forest Ranger Darlins 160 acres above Alfords on Chocolate Creek. The latter dont want to give any. They have an option on W^m Kuchners 120 as on which a Dam site is located for \$14,000 ⁰⁰/₁₀₀. Mrs Bartl is visiting at Hendersons for a few days and through her I found out that there is something crooked going on against the Water Co, headed by Mr Hager, Sacket, Clegg & others. Sacket & 5 men are camping at Hendersons now & making somewhere there surveys. I was also informed that they have filed on some Water rights above Diverting Dam and Chocolate.

2.
This move again proves the faithfulness of your Manager against his benefactor Mr Murray. You better look into this matter, head them off if you can and notify Mr Murray

yours truly
Edmund Bartl

P.S. I have read your notice posted below the Dam ^{see there} it is lacking the name, signature and date. Do you want me to fill it in with Indelible Ink? Give instructions and oblige.

January 2^d 1912

This morning Mr House came up & I told him about the notice not being signed & he said that cant be, so I took him over & he read it. It turns out that it must have been posted Tuesday the time the brush was up. As stated above it has no name no signature & no date on. and reads as per enclosure.

January 24 1912

Copy of notice posted on lower side of Dam on the West side.

Notice of Appropriation.

Notice is hereby given: That the undersigned ^{agent} does hereby claim all water of the San Diego River now flowing and hereafter to flow, and all surface and subterranean water of said River to bed Rock thereof, at the point where this notice is posted, to the extent of 100,000 ^{minors} inches measured under a four inch pressure the same being 80,000 minor inches of 1.56 feet per minor, said water being impounded by means of a Dam at this point and stored at this point and at various Reservoirs to which said water is intended to be conveyed.

That the point of intended diversion is at the Westerly end of the dam, known as the diverting dam of the San Diego River to near the S.E. corner of the N.E. 1/4 of Section 11 T. 14. S. R. 2 E S.B.M.

That the purpose for which the water is claimed is for Domestic and Irrigation use and supply of Cities and Towns.

That the place of intended use is on Rancho El Cajon and Rancho La Mission and City of San Diego and other lands between point of Diversion and the Pacific Ocean.

That the means by which it is intended to divert & convey the same are by means of Ditches and Flumes six feet wide four feet deep with a fall of 4.75' per mile

Dated (blank)

(blank)

Appropriator

January 18th 1912

Mr. Ed. Fletcher

Dear Sir,

Enclosed find a letter which was sent to me from Los Angeles to Grossmont & which was brought on by Mr. Elmore. Read it - What do you think of it? After you are through with it kindly return same and oblige.

We have put in from the Dam 160 feet of Flume 30" high which carries nearly 3000 M.I. of water, that is after we get it. we are now building the waste part, fitted with some wooden gates to regulate the flow for the flume & the waste to the Creek. I have also a little work done by a man and team to gather some stones for the remainder of the spill way. Everything is in good order & satisfactory.

What do you think, shall I answer that letter? For my part I place perfect confidence in Mr. Murray & you regarding my future & don't feel to deal with a crowd which has business principles as they show so far. From these remarks you may gather, that I have an idea that the parties are your opponents, that they either want to get me away from you & drop me afterwards, or may be they are in earnest I don't know.

very truly yours

Edward B. Paul

P.S.

I omitted to mention that I must have a barrel of Asphaltum of the same quality you ordered last year for the flume as the new high flume must be tight to save wash outs. Also need 2 large brushes to do it on the cracks. Should the Flume Co have some you can send it to Lake Side but inform me at once so I can send my team for it.

Edmund Bartl

[BARTL, E.]

January 20th 1912

Mr. Fletcher.

Dear Sir,

I will have carried out ^{your} ~~my~~ orders by Monday night that is the Flume will be raised in height for at 3000 m.s. as soon as the Asphaltum comes everything will be done what than? While I work on this I also had a team & 2 men to get Stones ready for the unfinished Spill.

I will have to know what to do as the Stock will have to be paid for gas or work or not & the Camp will have to be moved.

I ~~discovered~~ discovered a very important matter.

In order to find out the whereabouts of Sackett's men I drove down to South Fork & walked from the lower end of the Siphon in the dry & not repaired Flume to where the Bridge was & where the lateral & small Flume commences, this was also dry & not repaired, still I heard the rush of some water 60' below in the Creek. I hurried to its end and found a nice small stream passing by only 3 feet of the mouth of the small flume into the Creek Channel below. For the last 3 weeks this water is running away and not a drop caught. I could have turned it in, by ^{raising} ~~taking~~ the wooden gate, in 5 minutes with my shoes. The Flume shall be patched at once if only temporarily to the Siphon. The Engineers are working on the South Fork Canyon near the Mouth of the end of the small Flume if they discover that the water is thus wasted, they may take the advantage of ~~going~~ ^{going} on that Creek too, claiming, that the small & large

Things from South Fork are abandoned & the Water rights not
used in a time where water is gold besides they may
stir up an ugly dissention among the people of the Valley.
I have done again my duty to you & await for your orders.
I have thought the matter well over & am ready for advising
in case you want it.
Please give orders what to do by return of this bearer.

Yours truly,
Edmund A. Bartl

San Diego, Cal.
Aug. 8, 1913.

Mr. Ed. A. Bartl:
Lakeside, Cal.

B5
C. W. CO.
FILE

Dear Sir:

This will introduce Mr. R.A. Hamilton, who has come
down to take topography etc. at various points with the
plane table.

On Monday or Tuesday he is to go up to Palmer's
camp for a week there. In the meantime, I have instructed
him to report to you for the following work. My idea is
to have make a beginning of the maps for the determination
of actual irrigated acreage in the Lakeview district, but
more especially at this time to map the area which will be
affected by your proposed pipe line. So I wish you would
start him in near the Lakeview ~~SCHOOL~~ school and work along
the road where the syphon will go, on towards the flume.
This will take in the Jennings place.

As soon as Palmer is ready you will let Hamilton
stop wherever he happens to be.

He is to get the size and location of all the private
water lines which he can get track of and place them on the
map. Scale is to be 200" to the inch, not 4002 as I first
spoke of.

Very truly yours,

B6
C. W. CO. FILE

August 11, 1913.

Mr. Edmund A. Bartl,

~~Lakeside, Cal.~~
Grossmont, Cal.

Dear Sir:-

Mr. Palmer will be ready for Hamilton Wednesday, so you had better arrange to get in touch with the teamsters or auto trucks, which are hauling cement on that day. Palmer will probably send a note down to the Hotel with directions about a team, the corral where the teams stop is just across from Mrs. Prices!

Very sincerely yours,

WSP-WK

B8
C. W. CO.
FILE

August 22, 1913.

Mr. Ed. A. Bartl, Superintendent of Construction,
Cuyamaca Water Company,
Grossmont, Cal.

Dear Sir:

I note your letter regarding the use of the square type of concrete flume instead of the trapezoidal 3" plastered flume. This has been thoroughly considered and put up to Mr. Fletcher and has been definitely decided in favor of the trapezoidal, for this reason, The estimate of the square is \$3.00 per foot; the estimate of the trapezoidal is about 10 cents a square foot. This conduit being entirely on new work and not complicated by the other flume, has no excuse for extra cost. I have adopted the onehalf to one slope because a better water section, although it probably involves the use of molded slabs instead of molding in place.

There is not as much urgency upon this work, except to provide the ditch. I will take up personally with you in a few days the slab method of construction and in the meantime you will have to stick to the crosssection as planned.

In your requisition are some lumber items which I am not filling, the idea is to use only flume lumber for forms as far as needed, which you will get by requisition on Mr. Harritt.

I am sending requisition blanks which you had better use, drawing on Mr. Harritt for commissary supplies and myself for all other material.

When will the crusher be in shape?

As to wire netting, we are looking up to see what we can get in stock here.

Sincerely yours,

B-9

C. W. CO.
FILE

August 28, 1913.

Mr. E. A. Bartl, Superintendent of Construction,
Sand Creek Camp.,
Cuyamaca Water Co.,
Lakeside, Cal.

Dear Sir:

The following rule shall take effect on the
payroll for August 1913 and thereafter until further notice:

Any man doing laborer's work for the Cuyamaca Water
Company shall contribute one dollar (\$1.00) each and every
month, to be deducted from his salary as Hospital Dues, and
shall receive the services of Dr. Derbyshire as needed, for
any personal injury or disease which he may meet with while
working for said Company in said capacity, said services of
doctor to be free of charge provided such Hospital Dues
have been deducted as provided in this rule.

The said dues shall be considered as deducted from the
payroll on the third (3rd) day of each month and any man
who has worked three days or more shall be effected by this
rule.

Very truly yours,

Chief Engineer.

WSP-WK

B-10

C. W. CO.
FILE

August 28, 1913.

Mr. E. A. Bartl, and
Mr. J. C. Palmer,
Sand Creek and South Fork Camps.

Dear Sir:

Hereafter and until further notice please
see that and give orders that after any of the Company's
teams or teams hired by the Company, go through any
of the gates on Mr. Frink's Ranch, El Monte, that said
gates are shut and fastened so that they will stay shut.

Very sincerely yours,

Chief Engineer.

WSP-WK

B-11

C. W. CO.
FILE

San Diego, Cal.
Aug. 28, 1913.

Mr. Ed. A. Bartl,
Lakeside, Cal.

Dear Sir:

With reference to the Commissary, my position is that this should be controlled by the Superintendent of Construction in order to promptly settle any complaints. In other words it is for you to handle the commissary, and correct anything which may the matter. You are to hire and discharge cooks, buy provisions on requisition through Mr. Harritt as far as wholesale orders are concerned.

As to special supplies such as vegetables and meat which you prefer to get directly, this will be entirely satisfactory as a matter of course. You can arrange for standing accounts with the Lakeside butcher etc., giving him requisitions on receipt of goods which he will turn in monthly with his bills. I judge that this has been your difficulty.

Keenan tells me that you prefer to turn over the commissary to Morse. This has already been up once, and probably is not suggested by Morse. My first reason is sufficient I think, but it is also true that Morse teams are only temporarily on the job, simply as a grading and hauling contractor, and I presume you will be through with them shortly, except as you may retain a supply team. The camp however will be maintained in one way or another ~~for~~ until the pipe is in place.

I judge the other difficulty has been getting freight from Lakeside. I shall see that a bond is arranged to secure freight on order from yourself, Palmer, Harritt etc. I will notify you to that effect as soon as bond is issued.

Very truly yours,

B-12

C. W. CO.
FILE

August 29, 1913.

Mr. E. A. Bartl, Supt of Construction,

Sand Creek Camp,

Cuyamaca Water Co.

Dear Sir:

Per your requisition, I am today ordering three barrels and two 5 gallons cans of oil, gasoline and distillate. This material will be delivered from the Standard Oil Co. Santee Station, by truck to the El Monte Ranch which is as far as we could get them to deliver, and you will please have a team at the Monte Ranch to meet this truck. The driver can meet the truck and roll the barrels from the truck to the wagon which will save the driver considerable trouble for should he have to load the barrels of oil from the ground, he would need another man for help as they will weight close to 300 lbs.

Please have this wagon take all the empty barrels that you may have that have been used for oil etc, down with him and give them to the Standard Oil Co's. Truck driver, I have promised that at least one ^{empty} barrel would be brought down from the camp as the Oil Co. is short on barrels at present. Perhaps they will just fill this empty barrels from the tank on the truck. The wagon had better be at the El Monte Ranch at noon or shortly after and go down the road until they meet the Standard Oil Co. truck, but of course the driver will have to watch rather close as they have customers all along the line.

Very truly yours,

Engineer.

B-13

C. W. CO.
FILE

September 2, 1913.

Mr. Ed. A. Bartl.

Sand Creek Camp.

Dear Mr. Bartl:

Enclosed please find copies of your letter and
statement per request.

Also blue print of cement lined conduit, drawing
No 2023, File No T-1.

Very truly yours,

B-14

C. W. CO. FILE

September 6, 1913.

Mr. E. A. Bartl, Supt of Const.

Sand Creek Camp.

Dear Sir:

I am today asking Mr. Harritt to send you six
or five iron wheelbarrows which he has in stock for use
in cement work. These are new equipment.

I do not feel justified at the present time
in ordering any cement carts as I feel their present
usefulness would not justify their cost. I think
the wheelbarrows will answer just as well in this case.

The crude oil and cup grease will go up on
the Cuyamaca Train next Monday morning Sept. 8th, with
the scoop shovels you ordered and it might be well to
tell the driver that day, to stop at the South Fork camp
on his way back and load the wheelbarrows.

Very truly yours,

Engineer.

WK

B-15

C. W. CO. FILE

September 8, 1913.

Mr. E. A. Bartl, Supt of Const.,
Cuyamaca Water Co.,

Dear Sir:

Per your instructions, I have made arrangements for 7 laborers to go to your camp today.

As I told you on your last visit to the office; these men will not go to work in the country for less than \$2.25 and I have told them that they would be paid at that rate with \$5.00 per week deducted as board and \$1.00 per month deducted as hospital dues.

Mr. Post leaves a note here, for you to appoint your own foreman, Mr. Berry if you wish.

Mr. Post also wishes to remind you again of deducting the Hospital Dues.

I tried to get the men for \$2.00 per day, but I asked you about the matter on your visit and am under the impression that you agreed to \$2.25 and am promising that rate for these men that are going today.

Very truly yours,

W. E. Keenan

WK

B-16

C. W. CO. FILE

Sept. 11, 1913.

Mr. E. A. Bartl, Supt of Const.,
Cuyamaca Water Co.,
Lakehite, Cal.

Dear Sir:

Received your letter of Sept 10th, with requisitions and statements enclosed.

The concrete mixer, bolts, etc. have been ordered will notify you later when they will arrive. The mixer has to be shipped from Los Angeles which will take about two days.

In regard to the employment agency fees: I have just talked with Beatty of the Western Employment agency who has had all the business from us, and he says that in the case the men only work a half days as some of the last ones did, that the agency receives nothing, but in the case they work for three or four days, the employment agency should receive 10% of the amount due the man at the time he is paid off, and in the case where they work a full week or more, the employment agency is to receive the amount that is shown on their signed slip, which they have been leaving at the office and which

Mr. Mathews wants left in his office. A list follows:

Solomon Castro	\$2.50	Daniel Flores	2.50
Pedro Quiroz	2.50	Florentino	
Jesus Cansino	2.50	Mejillas	2.50
Jose Diaz	2.50	Inez Ruiz	2.50
Arturo Bareda	2.50	Cipriano Nolasco	2.50
		Henry Feliz	2.50
		Martin Sanchez	2.50
		Fran co C Villogas	2.50

I believe you should notify Mr. Mathews which ones of these may have been deducted from any time checks and any that may be deducted from the regular payrolls, in order that he may know which ones should be paid to the Western Employment Agency.

Very truly yours,

B 19

C. W. CO.
FILE

XXXXXXXXXXXX
924 8th St.

September, 23, 1913.

Mr E A Bartl.

Sand Creek Camp.

Dear Sir:

Your letter received re: profile of syphon and conduit, these things were sent up by Mr. Kingsley personally who is to do some surveying near Palmer's camp and he was to send them up to you by the first opportunity or special messenger.

I am today writing him to get them to you immediately.

Very truly yours,

W.S.P.
Engineer.

PS The 16 rolls of chicken wire should be at Lakeside, the 24th or 25th (Wednesday or Thursday.)

WSP-WK

B 18
September 20th 1913

Mr Wm J. Post C. W. CO.
Chief Engineer C. W. Co. FILE

Dear Sir.

Please send me the Profile of Syphon & Conduit as soon as they get through with copying the notes therefrom.

Yours truly
Edmund A. Bartl
Supt.

*above sent by Kingsley for
Bartl 9/20/13*
B.F.B.

C. W. CO.

C. W. CO.

San Diego, Cal.
Sept. 23, 1913.

FILE

Mr. Ed. A. Bartl.
Sand Creek, Cal.
My dear Bartl:

I talked with Mr. Maxson, Engineer of the Reinforced pipe Co., regarding putting water in pipe. He says he does not want to put pressure on the joints, but would ~~XXXXX~~ very much like to have the outside thoroughly wet for the next 15 days. This I agreed to, and it makes unnecessary the presence of their foreman or representative for the two weeks after they finish.

You will therefore avoid putting water inside the pipe, or doing anything in connection with the pipe, except see to the constant wetting on the outside and anything else which Mayberry may ask you to attend to.

The test is to be two weeks after the finish, that is apparently about Oct. 7th. This is earlier than I had been figuring on, and it will be necessary for you to figure on the same date for finishing the conduit. Put on another gang hand mixing if necessary under another foreman and shove this work along.

You will understand the importance of your conduit, because of the need of taking down the Sand Creek trestle for repair material.

Very truly yours,

924 8th St.

C. W. CO.

September, 29, 1913.

FILE

Mr Ed A Bartl.

Sand Creek Camp.

Dear Sir:

Enclosed please find copy of letter which was sent to Mr Plamer per Mr. Post's orders.

As far as I can find out now, the concrete mixer will arrive about Tuesday night at Lakeside. Mr. Post thought that you would need these seven men about that time if Mr Palmer is thru with them then. Will send the stationery and small battery up with Mr. Morse tomorrow, he may not get to your camp until the next day though.

Very truly yours,

WK

XXXXXXXXXX
924 8th St.

FILE
C. W. CO.

October 16, 1913.

Mr. Bartl.

Sand Creek.

Dear Sir:

Received your letter and requisition. About this reinforcing, I can say I did not have anything to do with this order more than to place the order. Mr. Post and Mr Hickok gave me a list of the sizes and lengths to order, which I did. I am sorry this did not suit. However, I will order the 30 more pieces 6 ft. long per your note and get them up there as soon as possible. These shorter rods will do very well for the next section of conduit, which I understand is to be somewhat smaller than the section you are working on now.

The 30 ft long reinforcing bars were hauled in San Diego on an auto truck and I should think they could be hauled the same way up there, by tying them on to the truck, even if the ends drag on the ground it will not harm them.

I 'phoned to Mrs. Bartl about this reinforcing mesh and she said she would notify you when it would be there, which will be on this mornings' train. I am sending a bolt cutter to you, which is used a good many places for cutting these reinforcing mesh, and will also be useful for cutting these reinforcing bars of small size.

I am having a little trouble getting the pieces of rail and the gate lifts for you, but I believe Mr. Post wrote you about leaving a space in the conduit for them.

About the chain, Mr. Wait, who we bought the mixers

XXXXXXXXXX
924 8th St.

FILE
C. W. CO.

October 13, 1913.

Mr. Ed. A. Bartl.

Sand Creek Camp.

Dear Sir:

Upon my return and talking with Keenan, I find you are having some difficulty to understand what I wish regarding the connection with Tunnel No 1, and as I shall not be out to your camp until Wednesday, you may wish to have this settled.

In the new conduit, there will be two gates at right angles to the channel, on the outlet into the old flume, there will be four gates set diagonally across the old wood flume in accordance with preceeding instructions. I enclose a sketch. Steel rails, will be ordered as guides for these gates, 7½ feet long. If these do not arrive soon enough, leave small boxes in the floor and you can concrete the rails in afterward.

Regarding the difference in the level of the floor of the tunnel and your conduit, you can put the shoulder wherever is most convenient, perhaps right at the end of the tunnel. It will not be necessary however, to back fill and raise your floor, but lay it on the natural ground. Any depression in the floor makes no difference in the flow line and is simply dead water. I have not compared the levels of the flume and the bottom of your conduit, but there is no occassion to make any changes in the flume. If ^{there} ~~it~~ is

- 2 -

from, said he could not get the links of chain of the size you ordered and, of course, two different sizes of links ^{not} will/work very well in that kind of a chain, so what could I do but get a new chain for you. After I found out he could not get these links for us, I tried other places in San Diego, but could not get any of the right size

Very truly yours,

WK

- 2 -

any difference we will make it a square shoulder and the setting of the gates in the new conduit, will regulate and raise the water sufficiently to make it flow out through the old flume, which now becomes simply a waste way. The reason that I want four gates diagonally across, is that I want a long spillway for automatic regulation and discharge of excess water and therefore, I want ample area over the gates.

Regarding the lack of agreement in sectional area between the trapezoidal section and the square section, you are probably right in suggesting that the square section should be widened ~~sufficiently~~ to make them agree in area, for a depth of three feet six inches. However, if this disarranges your plan very much, it need not be done as the section is a short one and the contracting of the channel is unimportant. With the completion of Tunnel No 1 $\frac{1}{2}$ there should be a foot extra grade on the water surface of your new construction greater than it has now. You will under no circumstances, make your connection into the main flume until Mr. Harritt has given his instructions as to when and how he wants it done. In other words, you have no authority over the flume or to make any changes in the water regulation and you will plan your work up to the flume without disturbing it, until Mr. Harritt has set the time when this can be done. If you need some action before Wednesday, call Mr. Harritt at Camp No 2 or somewhere on the line, Monday or Tuesday as he will be there both those days and make your arrangements. His order to you had better be in writing so that there will be no misunderstanding. You will hand him this letter at the same time, so that he will know what my directions are to you

January 25th 1917

Mr W^m S. Post

Chief Engineer

+ Volcan Land & Water Co.

Dear Sir!

I have sent this day by Express a box containing 4 samples of sand to Mr L Jorgensen of C. T. Wiskocil Dept Engr University of California Berkeley Cal. they are marked from 1 to 4.

N^o 1 contains samples 1-2-3 of flat at band opposite James Carrolls House 1/2 Mile from Dam

N^o 2 sample N^o 4 opposite Bartls house.

N^o 3 samples N^o 1 & 2 south of Bartls house

N^o 4 samples N^o 3 & 4 further south of House or 1/4 Mile from Dam.

Samples were sifted through N^o 10 Screen left here for the purpose.

The percentage of sand is from 90 to 95% the rest is from 10 to 1/4 Inch & good

2.

I also preserved duplicate samples in boxes which are at the shed near the house.

There is any amount in these flats up to 30000 cb yards, some of it has a fine layer on & must be stripped.

There are also small patches near the Camp but small in Area.

Owing to Water I have not sampled the River sands, this will run the same grade with some silt on top.

I return to day the Screen by parcel post.

I would thank you for sending me

2 small writing Pads ✓

2 larger " " ✓

1 bottle of Indelible India Ink ✓

and a book for discharging man with stubs as per sample.

Have taken a wading Measurement

3.

at Guajito Creek January 23 Record of which I enclose.

Enclose also daily distribution for Carroll dam for November & December & shall continue same one a week as ordered.

Will return team at the end of the Month to Mr Morse of the Santa Fe Ranch.

yours truly
Edmund Bartl

Sent to day by X press a box of Grape Juice
any time you want more let me know, please.

February 11th 1917

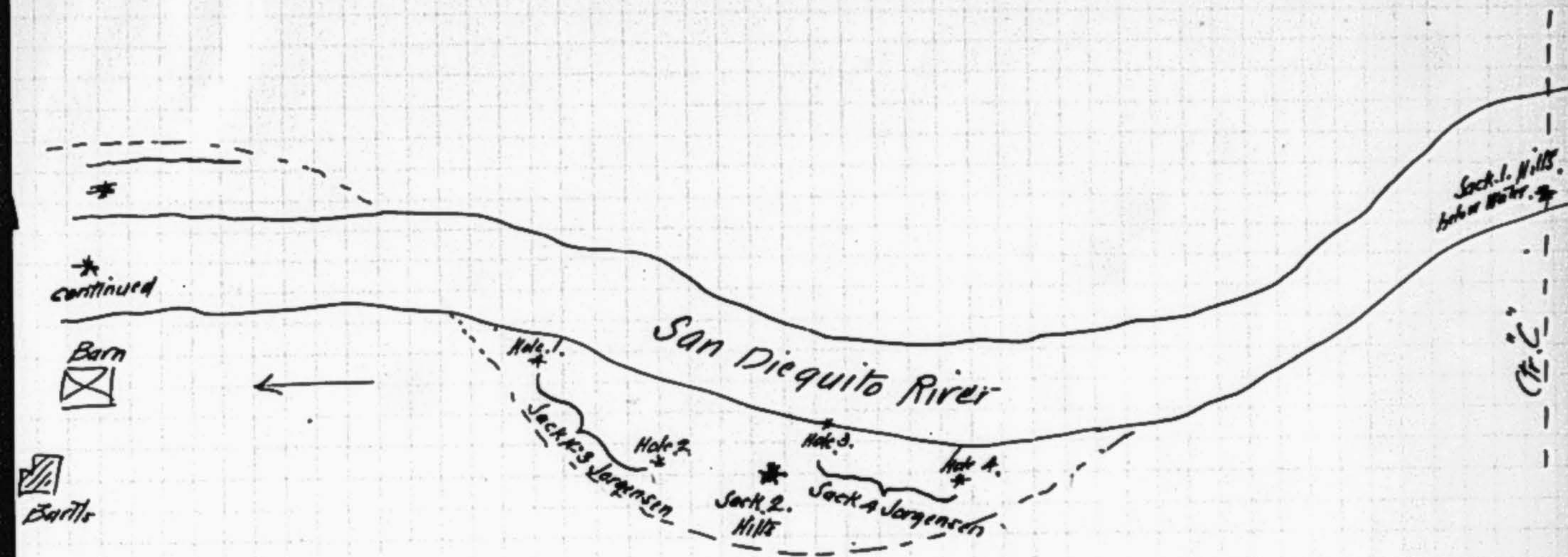
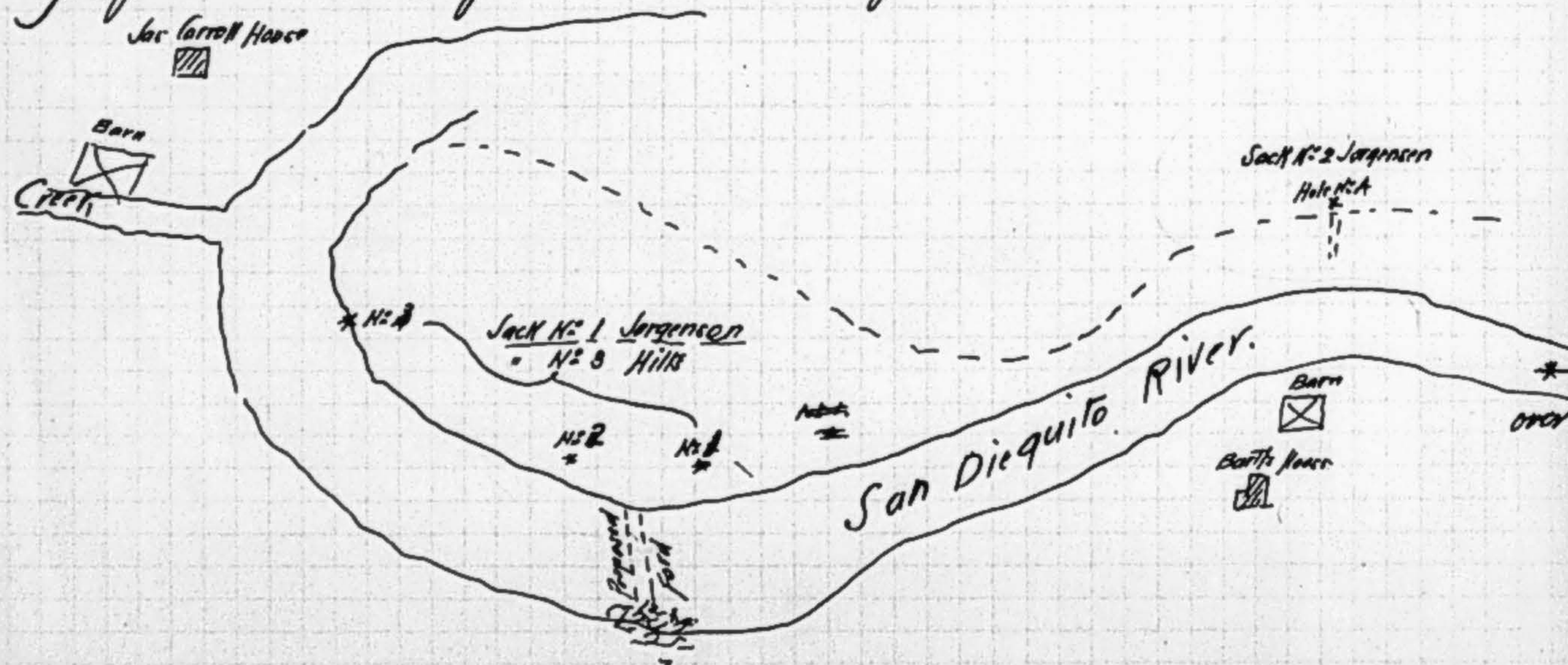
Mr. Wm. J. Post

Dear Sir!

Mr. Hiltz was here Saturday, we went down to the Dam "C" shown him the location and he took a sample of Sand from the River near the center line, but he said that there is not enough of it and too fine. Then we walked up the River, as he concluded that there is nothing below the "C" Dam, which can be utilized for the dam owing to scarcity of it and also to its location between boulders.

He tested at several places but was not satisfied with quality and quantity. He found a satisfactory deposit & good quality from 500' to 1000' and still farther, South of my house on the West side. He took a sample of that & N^o it 2. Then we went to the bend of the River, where there is any quantity & in his opinion good sand he took on from there for the whole flat and marked it N^o 3. That was all then he left me.

The sketch below, will more fully explain samples taken for Mr. Jorgensen & already sent to Berkeley



As mentioned before there is nothing between "A" & "C" & 1/2 Mile down the River from "C", about at that distance from "C" is a flat which contains sand below water level, do you want me to take a sample from there and send it on?

Waiting for further Instructions

I am yours truly
Ernest Barth.

73
December 5, 1917.

Mr. E. A. Bartl,
La Mesa, Calif.

Dear Sir:

Enclosed find letter from Sloane.

[see
HALLIDAY, M. C.]

Please mark on the ground the nine feet that
he referred to, so that I can look it over the
next time I come out.

Yours very truly,

F-S

96-A

San Dieguito Dam, September 16th, 1918

Mr. Ed. Fletcher,

Pres. Mutual Water Co.

Dear Sir.

Some time ago I received the Inscription for a tablet, to be
placed on the side of the Spillway.

The Inscription Read as follows:

SAN DIEGUITO DAM
erected by
SAN DIEGUITO MUTUAL WATER CO. 1918.

DIRECTORS:
W. E. HODGES
WM. G. HENSHAW
E. O. FAULKNER
C. S. PAYSON
ED. FLETCHER PRES.

ENGINEERS:
J. S. EASTWOOD DESIGNER
W. S. POST
E. W. CASE
ED. A. BARTL
CONTRACTOR: BENT BROS.

Above Inscription was carved & then black Enameled, excepting my name
which was left out, for which I had a reason.

Perhaps you want to know the reason, so I take the liberty of giving it
to you. The San Dieguito Dam itself is O.K. in every way and the
Spillway tip is according to the drawing at + 250.00

I have visited portions of your conduit during its erection and among
other things I asked the Engineer in charge, what the top of the
conduit wall is. He said: to station 150 is the typical section,
and from there, the top of the wall is: +250.00. That looked quire to
to me, so at another time I again asked, what the elevation of the top
of the conduit is. He again said: +250.00 In order to be sure about
it, I connected the levels of the dam with the conduit and found his
statement to be correct, that is: +250.00

Now then: It is customary to have 6" from the top of the water to the
top of the wall, to avoid spilling on the sides. in case sediment or
other refuse slides into the ditch. This customary 6" was observed
to about station 150 and from there the top of the wall is: + 250.00
Allowing the 6" the top of the wall will be only: 249.50 or 6" below

the spillway tip. The flow of the water in the conduit is continuous when it reaches the elevation +250.00 it will commence to spill over its side beginning at station 150 and "reck" your conduit and syphons and still no water will spill through the syphon spillway.

The safety of filling the reservoir to the spilling point is therefore lost, and it will be too late to prevent damage by shutting the water off at Hodges, which takes considerable time. This in my opinion is poor engineering, which accounts for my name being left out.

Possible remedies: Either to rise the conduit 6" from station a distance of 9000.00' which may cost about 3000.00 dollars, as plants are removed and the time is very short. Another way to remedy this serious oversight, is: to lower the outer spillway lip say "one foot" and chisel the reinforced concrete of the 3 compartments of the inner 12" wall also "one foot". This is somewhat tedious, but by far the quickest, and may cost from \$200 to \$250. Besides this there is a loss of one foot of water = 24 million gallons, and one foot of DAM construction loss = about: 800.00 dollars.

If either one or the other of above remedies is applied the spillway will work in safety.

The time is now short, and an early decision is advised.

yours truly,

Ed. A. Bartl.

Engineer.

San Dieguito Dam Oct, 1918.

Mr. E. W. Case

Chief Engineer Mutual Water Co.

Dear Sir.

Would you kindly inform Mr. Bent, that the incasing of the 2 26" Valves on the north side of the San Dieguito Dam, with concrete also one more 26" reinforced pipe, to but on to one of the Valves ought to be done, before he lets his concrete men go.

This is provided for in the contract.

These Valves are only leaded in, but they are 18" in the air and the pressure on the valves with full pressure of Reservoir would be 3280 lbs.

It would be also advisable, to attach to the 26" Valve on the south side of the dam, a graduated BARREL INDICATOR, to show whether the Valve is closed, half open or open.

The waste Valve at +211 has a pressure of 3½ tons with full reservoir therefore a larger block of concrete around it seems to be advisable.

When can we expect the grates for the Valves?

The Cement Gunners are here and ready to start, what are the requirements? Please send me a copy of the specifications.

yours truly

Ed. A. Bartl

Engineer.

San Dieguito Dam November 1st 1918.

Mr E. W. Case

Chief Engineer San Dieguito Mutual Water Co.

Dear Sir .

Enclosed find statement of Gunning done on the San Dieguito Dam: The total Yardage of sloping Arches, Vertical Arches, and corbels were:-----2410 yards.

We used 380 sacks of Cement.

A three quarter Inch coat of Gunning requires for one sack of cement a covering of 4.8 Yard. According to this we should have used 500 sacks of Cement, but owing to coating the vertical Arches and corbels for a distance of 6½' with a quarter ^{of an} Inch, we gained 120 sacks.

Yours truly

Edmund A. Bartl
Engineer.

PS. The work was inspected and approved by the State Engineer Mr Mc Clure October 26th.

January 27, 1919

Mr. E. A. Bartl,
Escondido, Calif.

Dear Sir:-

Mr. Case reports that there are no wheels with the valves. I am getting repairs for same. Did you ever hear of any gates coming without wheels before?

Mr. Case says there is no necessity for obtaining wheels as a wrench will open the valves more easily than a wheel. He says the only value of the wheel is that you can lock it and chain it so that no one can open or close the valve.

I would like an expression from you on this subject.

Yours very truly,

EF/bm

Hodges Dam September 6. 1919.

Mr. Thomas H. King.

Volcan Land & Water Co.

I have received the Blue print Paper from Rodney Stokes Sep: 4.

Thanks for the favor. Note also remarks as to flood Picture,
and thank you in advance for a couple of them.

Now as to your letter of August 27. to Mr. Fletcher.

I say it is a very cowardly act, as you have been here with Mr.
Savage & Party & did not say a word about the clock, but the next
day you write letters to our Prest. trying to besmirge my character.
This has been done now repeatedly, and I came to the conclusion
to stop it, and requested Mr. Fletcher to give me a hearing to
vindicate myself and prove that you sometimes dont know what you
are talken about. If Mr. Holyoke was here, why didnt he made his
presents known? At any rate I told him long ago if the Recording
Instrument arrives to send it on and I shall insal it, probably at
a quarter of the cost, from his drawing, to which I have perfect
authoroty.

Yours Truly

Ed. A. Bartl.

September 10, 1919.

Mr. E. A. Bartl,

Lake Hodges Dam, Calif.

Dear Sir:

Your very silly letter of September 6th re-
ceived. When you are able to write a sensible, manly
letter, I will be glad to discuss with you any matter
pertaining to the business of the company.

Yours truly,

THK:K

carbon copy to
Col. Fletcher.

VOLCAN LAND & WATER COMPANY
SAN DIEGO, CAL.

September 24, 1919.

Mr. Edmund Bartl,
Escondido, Calif.

Dear Sir:--

Answering yours of the 17th, would say I have instructed Mr. Holyoke to take out within a week at least and deliver to you the automatic gauge.

You are entirely mistaken about Mr. Ebert for I have seen the plan which Mr. Ebert sent down and recommend it. It is the one which we copied and adapted to the conduit conditions. However, this is too small a matter for men to be wrangling about and for Heavens' sake get it built any way you want but it will have to be built satisfactorily to Mr. Ebert and you must take the responsibility.

I want it located where Mr. Ebert selected and Mr. Holyoke will show you again. It is a little below the first wooden bridge nearest the conduit below the dam and it is necessary to have it there as the meter readings will be more accurate. If it were nearer the dam, the varying heads within the dam would affect the discharge and I want you to follow absolutely Mr. Ebert's instructions in this respect, but get it built, and immediately, please.

Mr. Ebert has also furnished a hook gauge which please install. Mr. Holyoke will also bring this out.

Now, regarding evaporation losses: It is the opinion of the best men in the country that the Lake evaporation losses are only about 8/10ths of the pan. Your own records for two months show this to be true and the other two months practically agree. I want you to have an absolute record that you can prove and no guesswork about it and for that reason you have got to keep absolute track of the water that goes into the dam and the water that goes out. You have a better opportunity than any living man to make these experiments from now on and hereafter I want weekly reports mailed to me covering the pan evaporation; also the Lake evaporation and your proof.

Yours truly,

RF:K

Ed Fletcher Papers

1870-1955

MSS.81

Box: 1 Folder: 38

General Correspondence - Bartl, Edmond A.



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