

**SOUTHERN SANDOVAL COUNTY ARROYO FLOOD CONTROL AUTHORITY
(SSCAFCA)
MINUTES OF AUGUST 17, 1999
REGULAR BOARD OF DIRECTORS MEETING**

CALL TO ORDER.

The regular meeting of the SSCAFCA Board of Directors was called to order by Dub Yarbrough, Chairman, at 1:07 p.m.

Directors in attendance were James Dorn, Bill Joiner, Guy McDowell, and Dub Yarbrough. John Chaney arrived at 1:15 p.m. Staff members present were David Stoliker, Executive Director, and Karen Roybal, Receptionist. Members of the public were also present.

APPROVAL OF AGENDA.

A motion was made by James Dorn to move the Burrowing Owls and Swallows under Executive Director Report (A). It was seconded by Bill Joiner and passed unanimously. A motion was made by James Dorn to approve the Agenda as amended. It was seconded by Bill Joiner and passed unanimously.

SECRETARY'S REPORT

1. Approval of Minutes of May 18, 1999.

A motion was made by Bill Joiner to approve the minutes of May 18, 1999 as presented. It was seconded by James Dorn and passed unanimously.

2. Approval of Minutes of June 15, 1999.

A motion was made by James Dorn to approve the minutes of June 15, 1999 as presented. It was seconded by Bill Joiner and passed unanimously.

3. Approval of Minutes of July 20, 1999.

A motion was made by James Dorn to approve the minutes of July 20, 1999 as presented. It was seconded by Bill Joiner and passed unanimously.

4. Approval of Minutes of August 10, 1999.

A motion was made by Bill Joiner to approve the minutes of August 10, 1999 as presented. It was seconded by James Dorn and passed unanimously.

TREASURER'S REPORT.

1. Approve Expenditures - 05/01/99 - 05/31/99.

A motion was made by James Dorn to approve the expenditures for May, 1999. It was seconded by Bill Joiner and carried unanimously.

2. Approve Treasurer's Report - 05/31/99.

A motion was made by James Dorn to approve the Treasurer's Report dated May 31, 1999. It was seconded by Bill Joiner and carried unanimously.

3. Approve Expenditures - 06/01/99 - 06/30/99.

A motion was made by James Dorn to approve the expenditures for June, 1999. It was seconded by Bill Joiner and carried unanimously.

4. Approve Treasurer's Report - 06/30/99.

A motion was made by James Dorn to approve the Treasurer's Report dated June 30, 1999. It was seconded by Bill Joiner and carried unanimously.

5. Approval of Resolution 1999-8, Fiscal Year 99 Line Item Adjustments.

A motion was made by James Dorn to approve Resolution 1999-8, Fiscal Year 99 Line Item Adjustments. It was seconded by Bill Joiner. Roll call vote: James Dorn, yes; Bill Joiner, yes; Guy McDowell, yes; Dub Yarbrough, yes. Motion passed: 4-0.

EXECUTIVE DIRECTOR REPORT.

A. Dam 4 to 1 Pipeline Project Change Order Consideration for Approval.

Mr. Stoliker introduced Dan Aguirre and Scott Stapp. Scott Stapp is an environmental planner with Wilson & Company and was helping with the burrowing owl problem. A brief discussion followed regarding the burrowing owl. Because of the Board's concern regarding the owls encroachment into lot 116 encroachment, Mr. Stoliker was directed to stop work on Lot 116.

Mr. Aguirre stated that the numbers for the proposed change order are not final and are still estimates. They still need approval for the slopes and drainage for Dam 4. Some of the items in the change order in the Board members' packets were for grading

and additions that were made to the project. Items 11, 14 and 17 are estimates.

Mr. Aguirre stated that, Item 1, the design for the slope along Jackson and Pfeifer properties was a 5 to 1 slope. Some property owners along the dam wanted it steeper and the contractor was directed to cut the slope to a 3 to 1. The dirt was moved into the emergency spillway.

Mr. Aguirre stated that Item 2 was a request to add a 6-foot sidewalk along the front of the Dam 1 property facing Villa Verde drive. Mr. Yarbrough stated that he is opposed to adding a sidewalk. Mr. Aguirre stated that the sidewalk will cost approximately \$12,500.00. Items 2 and 3 were removed from the change order.

Item 4 is the addition of a wheelchair ramp to Sabana Grande. SSCAFCA is putting in the inlets on Sabana Grande and the curb is going to be removed anyway. Items 4 and 5 were removed from the change order.

Item 6 is for curbing that is going to be removed as part of putting in the inlets and is essential.

Item 7 is for the fencing around Dam 1. Mr. Yarbrough stated that they can set back the fencing and people can walk in the dirt instead of putting in the sidewalks at Dam 1. The parking lot that is being created is for access to the bike trail, which is owned by the City of Rio Rancho.

Item 8 are for pipe gates at the Dam. Mr. Yarbrough stated that the gates are essential.

Item 9 is the drop inlet. In the design, there is water coming from above Dam 1 and continues through the emergency spillway. If the berm is continued, and an inlet is added, all the water can be caught. Nothing would drain through to the Corrales area west of Dam 1. The price is high, but the inlet will keep the water out of Corrales, which is what the pipeline was intended for. The drop inlet will also serve as erosion control. The consensus was that the inlet is necessary.

Item 10 is for a silt fence around the burrowing owls at Dam 1. There is no construction being done right now. The owls are there right now and will interfere with the construction of the pond. The construction of the pond will not disturb the swallows on the south side of the pond. The north bank has eroded into where the pond embankment should be. The swallows are covered under the same act as the owls. Mr. Staff stated that if the swallow burrows are left alone, the swallows will return to the same burrow. Once the swallows leave, a permit is needed to remove

the swallows' nest. Item 10 is removed from the task order at this time.

Item 11 is for removal of trash and debris and is an estimate. This item is removed from the task order.

Item 12 is to construct a concrete collar around the existing storm drain at the south side of Dam 4.

Item 13 is to pull out and reset the speed limit sign along the place where they are redoing the curbing.

Item 14 is to regrade the southwest slope on Dam 1 and relocate the maintenance road and smooth the slope. This work is already being done.

Item 15 is to adjust the constructed manhole to lower elevation per regrading in the vicinity.

Item 16 is to control some erosion at Dam 1. They were going to move some dirt over to control the erosion. The cost on this is wrong and will be corrected.

Item 17 is to build Lot 116 pond at a later date due to the burrowing owl nest. This does not have to be added to this change order. It can be added later, or bid out as another project.

A motion was made by John Chaney to approve Items 1, 6, 7, 8, 9, 12, 13, 14, 15, and 16, not to exceed the amounts listed, on the change order for Dam 4. It was seconded by James Dorn and carried unanimously.

B. 528 Channel Master Plan Initial Review.

Mr. Dodge stated that they are working on getting the whole packet together on the 528 Channel, Urban Pond System, and the Tree Farm Pond System drainage plan.

Draft Report & Schedule.

Mr. Dodge stated that a rough draft will be delivered to David Stoliker. The AHYMO analysis has been completed and fine-tuned for all the different ponds and channels. The conclusion so far is that there are four major areas of potential problems, none of which are drastic or will cause loss of life. The existing facilities are undersized according to current design criteria. The first is the Seven Bar Channel. It is really AMAFCA's channel and has a 1,000-cfs restraint at this point. The Bohannan study came up with 1,100 cfs. Mr. Dodge is estimating 1,200 cfs. Mr. Stoliker stated that Mr. Kelly told him that it has the ability to go up to 1,200 with minimal work and 1,400 with major work. The

water is not overtopping; it is encroaching on the free water by five or six inches.

The second is the 528 Channel along NMSR 528. The analysis assumed that any vacant properties were fully developed for runoff. As the water flows along the 528 Channel, the channel is inadequate and the water runs out into the parking lots in some areas on the West Side of the channel. The crossing structures are the controlling item. There is a minor amount of spill occurring just north of the Rio Rancho Inn. It has a peak overflow of 27 cfs predicted or about .7 acre-feet. The 528 Channel does not meet any current design standards as far as having adequate freeboard. The fix for 528 channel to stop the spillage is to replace two or three crossing structures. To provide adequate freeboard is much more expensive. The Highway Department is looking at the corridor analysis for 528 and will be using this hydrology in their analysis and a possible combined project to do major repair to the channel.

The third problem area is that the flow in the channel and crossing structures along Southern Boulevard is not adequate. The crossing structures are not large enough and the storm drain at the bottom is not large enough. This is causing flow in the street and up onto private property. The solution is to upgrade the conveyance by using a storm drain or in combination with a storm drain and keeping the existing channel. It is more a city problem than a SSCAFCA problem.

The fourth problem area is the surface flow at Eastlake Drive has a capacity of 60 - 80 cfs and currently is flowing at 150 cfs. This is causing some local erosion. It is also more a city problem than a SSCAFCA problem.

Mr. Dodge stated that they will have a rough draft available shortly for review to make sure that nothing has been overlooked. Overall, the system works pretty well.

They are looking at upgrading the emergency spillway on Tree Farm Ponds. In doing a spillway, you have to consider the pmf. The existing Tree Farm Pond spillway has a capacity of approximately a 100-year event and is currently designed to breach.

All the data should be together by October 1999. Mr. Stoliker stated that when the report is finished it will be sent to the City. The 528 Channel is not owned by SSCAFCA. Redesigning the crossings will eliminate the current 27-cfs overflow and will get rid of the problem as long as capacity exists downstream.

There are two solutions for the AMAFCA channel. One is to increase the freeboard a little bit to carry the 1,220-cfs. The second solution is to increase ponding upstream to cut the flow down a little. SSCAFCA is allowed 1,000-cfs discharge into that

channel at this point. The reason for the 1,000-cfs limit is because there was a finite capacity in the Black Arroyo Channel. When the dam was constructed, there was more capacity created. AMAFCA and SCS would have to be involved to increase SSCAFCA's discharge into the channel. SSCAFCA can do minimum changes at this time, but with the predicted flow it is not endangering any of the downstream people. This is not an emergency situation at this time. Once the study is completed SSCAFCA can address any possible problems at that time.

C. Montoyas Arroyo Master Drainage Plan Review.

Mr. Stone, of Bohannon Houston, stated that they have produced two draft documents to date on the Montoyas Arroyo, which is the literature review and the hydraulic capacity analysis.

1. Literature Review.

Mr. Stone stated that they went back and tried to assemble all the information they could find with respect to the Montoyas Arroyo drainage. The literature briefly highlights the reports they found. The first is from the NRCS's report from 1962 where they analyzed a number of watersheds, including Montoyas Arroyo. NRCS established the hydrology for the basin. NRCS first proposed the Harvey Jones Channel in 1968 as a solution to the flooding problems in Corrales. In 1981, NRCS completed the design of the Harvey Jones Channel, along with Lomitas Negras. The actual Harvey Jones Channel was constructed in 1988 or 1989 by SCS (at the time). Lomitas Negras was completed in 1992.

The Corps of Engineers conducted a drainage analysis in 1992 in the Corrales area. One of the basins analyzed was the Montoyas Arroyo. The NRCS had designed the Harvey Jones Channel to accommodate 8,000 cfs. The Corps determined that the existing condition flow was about 15,000 cfs. The Corps predicted 17,000 cfs for developed conditions. Mr. Yarbrough stated that when this was happening, the Corps was trying to justify a large dam across the Los Montoyas above Highway 528. The Corps had a "benefit/cost ratio" and were trying to justify using the dam as a solution.

FEMA also was involved around the same time doing a flood insurance re-study. FEMA looked at the hydrology for the Montoyas Arroyo and came up with existing flows of 6,000 cfs and a developed flow of 11,000 cfs.

Mr. Stone stated that there was also a report done by Easterling & Associates in 1998 as part of their Northern Meadows subdivision. Easterling's report was approximately 6,000 cfs.

2. Hydraulic Capacity Analysis.

Mr. Stone stated that Bohannon Houston did a separate analysis of the capacity of the channel. Mr. Stone thinks there are two reasons for the differences between the analyses. When the Corps reanalyzed it from their perspective, they had a major impact difference by assuming sediment on the bottom moving through the system. The impact of having sediment on the bottom increases the roughness factor, which can affect the capacity of the channel. The NRCS did not assume that scenario.

Mr. Stone stated that the channel goes down to a big bowl at the bottom. It acts as a hydraulic dissipater where the energy is slowed down at the point of outlet where the concrete channel ends. The intent is to decrease scouring effects at the end of the channel. Sediment tends to fill up in the basin bowl and SSCAFCA has to clean it out. If it is not cleaned out properly or quickly enough, the sediment can be a major problem.

Mr. Stone stated that the water goes to a higher flow rate at the bridge. The results of his analysis reconfirm what the Corps was stating with respect to the impact on sediment and are a factor. The hydraulics have been reviewed and Mr. Stone concurs with the Corps' findings. No action was taken or direction given by the Board.

D. Illegal Dumping Brochure Consideration for Approval.

Mr. Rose is presently working with Bohannon Houston on a design for a brochure for conservation of watersheds. It came up with a design that included all important and useful aspects in presentation form to raise people's interest in conservation. A mascot was created for identification purposes. The literature explains what a watershed is and how to protect it. The brochure is in both English and Spanish. The ceiling cost for the brochure is \$5,000.00. The brochures will be given to libraries and school systems. SSCAFCA could also use direct mailout through utility services. It would cost approximately \$1.50 per brochure to copy. The Board stated approval of the brochure. A motion was made by Mr. Joiner, seconded by Mr. Dorn and approved 4-0 to spend up to \$5,000 to produce the brochure. Mr. Stoliker stated that this would probably be done this winter, as time allows.

E. Storm Damage Update.

1. Field Inspector of Enchanted Hills Channel.

Mr. Stoliker stated that a task order was given to Smith Engineering for production of a storm report and that the report is progressing. When it is completed it will be brought to the Board for review and action/approval. It was pointed out that a copy of

the Enchanted Hills field investigation is enclosed for their review.

F. Informational Items.

1. Montoyas Arroyo Correspondence.
2. La Paloma Final Approval Correspondence.

Mr. Stoliker directed the Board's attention to the enclosed informational items. No discussion occurred.

CHAIRMAN'S REPORT

A. Sublease Approval.

The Board reviewed the sublease agreement. Mr. Joiner moved, Mr. Dorn seconded and the Board approved the sublease as written with the provisions to allow extra time for Mr. Manganaro to retain his portion of the office and to extend the time to coincide with Mr. Manganaro's lease time.

DIRECTOR'S COMMENTS.

None.

OTHER BUSINESS.

None.

PUBLIC FORUM.

None.

CLOSED SESSION.

A motion was made by John Chaney to go into a closed session for purposes of discussing personnel matters and potential and pending litigation for Dams 4 to 1 Project and Urban Pond 4 Project. It was seconded by James Dorn. Roll call vote: John Chaney, yes; James Dorn, yes; Bill Joiner, yes; Guy McDowell, yes; Dub Yarbrough, yes. Motion passed 5 to 0.

The Board went into closed session at 3:52 p.m.

RESUMPTION OF OPEN MEETING

The Board reconvened in open session at 4:58 p.m.

The matters discussed in the closed meeting were limited only to those specified in the motion for closure.

Mr. Joiner moved, seconded by Mr. Yarbrough and approved 3-0 to approve Mr. Stoliker's contract amendment with a salary of \$68,500 and 5 additional personal days. Mr. McDowell abstained.

Mr. Yarbrough stated that no additional action was necessary on the matters discussed in the closed session.

ADJOURNMENT.

A motion was made by Mr. Joiner and seconded by Mr. Dorn to adjourn the meeting. It was carried unanimously. Meeting adjourned at 5:03 p.m.



BILL R. JOINER
Secretary



WM. C. YARBROUGH
Chairman

DATE APPROVED: Nov. 16, 1999