

Minutes

Landowner's Meeting

April 4, 1980

Meeting was called to order at 1:00 p.m., by Clint Bitton.

Present:

Clint Bitton

Harb Whitworth

David Nelson

Walt Johnson

Marvin Goddard

Lincoln Zollinger

Lary Silver (ASCS)

Paul Krupin (BLM)

Tony Bennett (SCS)

Wiley Smith (Butte SCD)

Clint explained the reason for calling the meeting was to update the involved landowner's on the progress of the project and the status of the workplan.

Clint turned the time over to Tony Bennett of the Soil Conservation Service.

Tony stated that the permit applications for the 2 demonstration sites have been approved by the Idaho State Dept. of Water Resources and that the permit applications for the 404 permits had been submitted to the Army Corps of Engineers.

Tony outlined the proposed schedule of activity for this summer on the river by SCS personnel.

Input for scheduling activities was provided by landowner's. A complete schedule for contact will be worked out.

He stated that the workplan was approved by the Environmental Protection Agency and reviewed conditions requested by EPA and stated that the Butte Soil Conservation District was in compliance with the requested conditions.

Tony made reference to the outstanding job Wiley Smith had done in presenting the project to the Division VI meeting of Soil Conservation Districts.

The Butte Soil Conservation District has signed project contract between the SCD and the Idaho Division of Environment.

Time was then turned over to Paul Krupin. He outlined summer involvement of the BLM and presented the aerial photo coverage of the project

Meeting ajourned at 4:00 p.m.

T A T Meeting

Mackay, Idaho

June 10, 1980

73251

Big Lost Streambank Stabilization

Minutes taken by field office personnel

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Paul _____, BLM Hydrologist, mapped erosion and depositional feature.

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- 206 Sediment area
- 28 Log jams
- 27 Most wasting areas.
- 25 Riprap areas
- 7 Channel alterations
- 15 Water diversions
 - 12.9 mile cut banks
 - 16.5 mile deposits
 - 1.5 mile riprap
 - .5 mile channel change, no riprap.

Going to map area:

- Flood plains
- Two people will be working on survey.

Need print out of all water rights. Bill Rhoads has that today. USGS is furnishing flood hazard computations on 8 gauging stations, will also provide H₂O quality data.

Working on long term sedimentation of Mackay Reservoir. Will compute difference in pool area of the dam when built as compared to today.

BLM is doing an inventory on Mackay Planning Unit.

Colored photos are being provided by BLM and EPA at no cost to local owners, according to BLM Hydrologist. Cost of 16" photos are \$25.00 ea.

BLM will be working on a site by site basis, determining streambank needs and alternatives and discussing them with the farmers.

Idaho Fish and Game report was given by Tony Bennett. They have Gabions purchased. The engineering abilities are unknown.

Wildlife counts are meager.

Paul Jeppson of Fish and Game has worked well with the committee.

Gravel removal from the stream was discussed. Past permits for channel modification have had a great deal of gravel removed in them according to Bill Rhoads. Fish and Wildlife service have not yet made comments. Tony Bennett is preparing a package to send to them.

SCS Report by Tony Bennett: Our main emphasis will be with private landowners. We plan to work with each landowner. A soil survey has been requested. Clyde Hilton of Soda Springs will be doing the survey. Darwin Jeppson BLM is also working on soils for BLM.

(Rock) source Materials: Bob Lehman asked about rock size. Rocks 2.5" was the answer. SCS and Manufacturers Resc. 4 to 10 inch diameter rocks to go into the baskets.

Armor plating in river discussed. Bill Rhoads indicated they were against molesting any armor plated bottoms.

Fields south of lower site have many rocks in them. Upper sites from old stream there is rock that can be used. Water Resource felt this one was out of their jurisdiction. The group felt we shouldn't take rock below high water line. It should be taken above high waterline. Bill Rhoads felt this would be a good valid plan. Walt _____ discussed use of fragmented small rock in the gabions.

On Upper site, Bob Lehman need to know the length of the unstable area. Hydrologist said 90% of the area has been established.

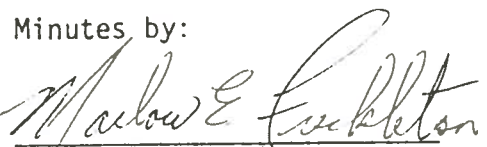
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Environmental assessments: Tony Bennett passed out SCS examples. He received them from Don Fulton. He hasn't discussed them with Clyde Scott. A tour June 11 at 9:00 a.m. is scheduled, leaving from Forest Service office at Mackay.

SCS then discussed items needed to help Bob Lehman get engineering done. Bob collected more samples for sieve analysis today. Bob needs location map of the project and Tony was asked to supply it. It needs to be a scale map showing barrow areas and construction areas. Bob needed backup data, etc. to support the purpose of the design and how it will be done. Tony Bennett furnished him with written material to help do this.

Minutes by:


Marlow E. Freckleton
Area Resource Conservationist
SCS - Pocatello

Big Lost River 208 Project
Technical Advisory Committee Meeting

6-10-80

The Butte County Soil District held a meeting at the Mackay A.S.C.S. office concerning the Big Lost River - 208 Project.

There were 18 participants, of which, were:

3 Ranchers -	2 D.O.E.
1 Idaho Water Resource -	5 S.C.S.
6 B.L.M. -	1 S.C.D. Board Member

They were:

S.C.S.

D.O.E.

Tony Bennett

Gordon Hopson

Bill Jolley

Donald Martin

John Davis

I.D.W.R. - Bill Rhoads

Bob Lehman

S.C.D. - Wiley Smith

Marlow Freckleton

Ranchers - Clint Bitton

B.L.M.

Walt Johnson

Chris Ruffatto - *Hydrology Tech.*

Renee Barta - *Hydrology Tech.*

Brad Keller - *Wildlife Biologist*

Don Smith - ^{CHALLIS / MACKAY} ~~Salmon / Challis~~ Planning Unit ~~Supervisor~~ AREA MANAGER.

Keith Poaque - *Wildlife Biologist*

Paul Krupin - *Hydrologist*

The meeting began at 1:30 p.m. with Tony Bennett conducting. He began by distributing the project plan outline and then asked Don Martin to update the progress being made on the Big Lost River Project. Don's remarks

were directed at the projects work plan being approved, March 1980 and on the progress S.C.S. Engineers have made toward finalizing a design for the gabion structure that is to be located just below the Bartlett Point bridge. He stated his concern about the project meeting its completion date as outlined.

Paul Krupin was then asked to comment on the progress in his area. Paul said that his team had reviewed the photos and located;

a. 220 cutbanks	12.9 miles
206 sediment diversions	16.5 miles
rip rap area (with channel work)	1.50 miles
rip rap area (without channel work)	.57 miles
15 water diversions	1.2 miles
28 log jams	1.5 miles
27 mass wasting sites	.49 miles
7 channel alterations	.13 miles

* Note:

Paul will be going into the field and will be making an on site study of these sites for accuracy.

b. He has been working toward completion of his map studies. He has obtained a copy of a print out on the water rights within the project area and turned it over to the District D.C., Tony Bennett. He suggested that a comprehensive study be conducted concerning flood hazards and the high and low flow during the various times of the year. He also suggested that a long term sediment profile for an average estimate should be conducted, so that an impact study could point out the life expectancy of the dam; the loss of storage capacity, and the erosion and deposition of the upper range areas.

c. He stated that the districts share in the costs of the aerial photos would be absorbed by the E.P.A. and B.L.M. A charge of \$25.00 per photo would be charged to the ranchers for duplicates rather than the original cost of \$20.00 per photo. The large color photos were to go to the district. No cost figure was given but it was noted that a charge will be assessed to the photo package.

d. The time was then turned back to Tony. Tony, commented about Paul Jeppson, Fish & Game, Biologist and his willingness to work with S.C.S. on the project and that Paul had obtained the gabions for the Fish & Game area. Bill Rhoades, (Water Resource representative from Idaho Falls) was asked to comment about work the Water Resource Department has done on the Big Lost River above the reservoir. Bill stated that the Department had issued several permits for river bottom control.

Don Martin then stated that the most effective accomplishment will be the S.C.S. and its influence on the landowner, by assisting him with his over all farm management practices.

The S.C.S. was asked to comment on the project. Tony stated that the Soil Survey of the upper Big Lost River area was goint to start, beginning this month and that Clyde Hilton, S.C.S., Soil Scientist will be here in mid-July to conduct a complete survey of the project area. John Davis will be assisting with range management development. Bob Lehman has been working on the design for gabion structure that is to be put in at Logan Williams' ranch. Bob Lehman asked the water resources department for an opinion on armored plating of the river bottom. Bill Rhoades reserved comment for future study. Bob, then suggested the idea of using a rock picker and asked for comments concerning the minimum size of rock it would pick up. It was determined that the minimum size was $2\frac{1}{2}$ " - 3" rock. Walt Johnson suggested that rock could be obtained from field adjacent to the first gabion site. It was determined possible. It was then asked what would be the use scale in the gabions?

Bob felt that it would be o.k. if they fell within the size limit. Bob finalized by stating that it would be the end of August to early September before the gabion would be set on site and it was decided that this would be more appreciable because of the low water.

Paul Krupin felt that another source of rock should be obtained rather than the river bottom because of the instability of the river channel and the difficulty to determine the effect it would have concerning the flow direction and velocity of the stream. Bob Lehman felt he could have the design finished by the end of June and sent to Portland for approval. He noted that it would take at least 45 days to get back from Portland. Marlow suggested that a carrier would expedite the approval if that carrier had a background of the design and project area. Tony felt that speed was essential to prevent addition increase in cost of materials. The decision as to the carrier was left to the decision of S.C.S. Tony then presented the environmental assessment evaluation system used by S.C.S. He then asked for ideas on the use of a correlated assessment plan that could be incorporated so as its use could be relative to the I.D.O.E. assessment, B.L.M. assessment and other resource assessment systems. The suggestion was accepted. Examples of S.C.S. prepared assessment sheets were submitted to the other agencies for review and comments. Marlow then suggested that the group explore possible alternatives to the assessment plan that would be more orientated to sponsor such as, the RC&D so as to insure an excellent background. It was felt by the representatives of the B.L.M. and the D.O.E. that there was experienced personal involved in the project with 208 project back ground and that a assessment plan could be developed without being tied down to an individual sponsor orientated assessment plan.

Don Martin then discussed the contract agreement and related that the final plan format will be the concern of the District office of S.C.S, and Butte S.C.D. He felt that all agencies involved to this point are correlating their

activities very well. A major concern of rancher Walt Johnson was that the money appropriated was going toward red tape and paper work and not into the project itself.

Paul Krupin then explained that project money, such as 208 funds, goes towards planning & developing a design and not toward the project itself. That this is a first where money is going towards the actual projects. Wiley Smith then concluded that if the project was written and put together properly that funding would be available or at least easier to obtain with a good plan.

Walt Johnson then began discussion of the need for a second look at the proposed second site and that the log jam that had been constructed to channel the river around the bend was weakening and had begun cutting a new channel, and if allowed to continue, would cause a change in the water course and away from the purposed gabion structure. An awareness to controlling the upper channel and water control coming into the lower gabion needs further consideration.

The meeting was concluded by Tony's final comments that the project is coming along. That the plan is needed and the demonstration gabions will serve as an example of what can be accomplished in river channel control. Tony also expressed his appreciation for the efforts of everyone involved with the project.

Minutes were taken by W.B. Jolley, Soil Conservation Technician.

July 28, 1980

Minutes

Big Lost

Introductions by Wiley Smith

Brief overview by Don Martin - Role of Idaho Division of Environment:

Brief overview by Paul Krupin - Aerial Photo Interpretation.

Bureau of Land Management - 2 weeks ground work left.

Review project progress for future direction.

Larry Silver: - Need for pressure on National Agricultural Stabilization Conservation Service. The State ASCS are aware of project. Agency cooperation outstanding. ACP funds for streambank stabilization are nonexistent. What about altering the approach to one of Riparian habitat enhancement for obtaining possible funding.

Wilber Boyd - National ASCS is not interested in streambank stabilization. Send letters to Congress to change funding.

Paul Krupin - Project unique and valuable in development of procedures and techniques.

Amos Garrison - Illustrated the broad benefits (Social economics in work plan.)

Dale Yonkin - The fact that Mackay Reservoir is the life line for the area, therefore may be stressing the need to save the reservoir from sedimentation.
Critical Area Treatment (ASCS) ACP funds may be another avenue for funds.

Amos Garrison - Stress multi-agency & organization cooperation approach.

Wiley Smith - Avenues of funding.

Amos Garrison - Possible use of 314 (Clear Lakes Funding).

Tony Bennett - Project has developed from landowner up through the agencies. Negativism has been changed due to multi agency involvement. Chuck Howard would be good help - Plant Mat. Center. Chuck Mowry is being a great help. Eng. Plan. is sent to Portland (and to the Dist.) so materials can be ordered. Thirty day review will put approval at the end of August. Fish and Game gabion structure on State land is ongoing - they were supposed to have YACC help - so the District may need to help Fish and Game at certain times.

Clint Bitton - Glad to see that every agency is being so cooperative.

Harold Bell - The process has turned around DOE-EPA - are now friends of the District.

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Tony Bennett	SCS
Wiley Smith	Butte SCD
Jack Jensen	Butte SCD
Dale Yonkin	SCS
Amos Garrison	SCS
Donald Martin	DOE - Boise
Harold Bell	Butte SWCD
James Lambert	PSCS
Wilber Boyd	ASCS - Mackay
Larry Silver	ASCS - Mackay
Clint Bitton	Rancher, Mackay
Paul Krupin	BCM - Salmon
John Davis	SCS

Landowner - RC&D Meeting

Meeting was called to order at 1:30 p.m. by Jack Jensen, Chairman of the Butte Soil Conservation District. Jack made introductions and turned the floor over to Paul Krupin of the BLM.

Paul Krupin: Discussed the activities of the BLM with relation to the project. Reviewed field work and matrices development for planning.

Paul also commented on the value of the photo imagery used on this project and drew attention to it for possible use by the RC&D.

Jay Wixom: Jay explained the RC&D program to those present. He also discussed project funding through RC&D. Lengthy discussion ensued with regard to funding. Jay fielded the questions and gave the needed answers.

Lynn Hintze: Discussed the potential for an RC&D project on the Big Lost River below the Mackay Reservoir. Jay explained that the potential was good. Harold Bell of the Butte Co. RC&D committee suggested that those interested attend the next Butte SCD board meeting to pursue the possibility further.

Harold Bell: Harold asked for a vote by the landowners for pursuing the RC&D source of funding. The vote was affirmative.

Walt Johnson signed the Project proposal as the group representative. Jack Jensen signed the project proposal for the Butte SCD as the project sponsor.

Tony Bennett: Tony used the matrices to explain the next step of determining priorities as essential to RC&D progress. Tony also asked for more help with the last gabion to be installed under the 208 demonstration project.

Meeting was ajourned by Jack Jensen at 3:30 p.m.

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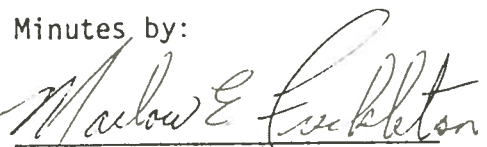
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Paul Krupin	BCM - Salmon
John Davis	SCS

Big Lost River 208 Project
Public Participation Meeting

9-16-80

The Butte County Soil District held a meeting at the Mackay A.S.C.S. Office concerning the Big Lost River 208 Project.

There were 21 participants, of which, were:

<u>Landowners</u>	<u>SCS</u>	<u>BLM</u>
Bardonna Zollinger	Tony Bennett	Paul Krupin
Terrence Donahue	Bob Lehman	<u>DOE</u>
Herb Whitworth	Bill Jolley	Don Martin
Marvin Goddard	<u>SCD</u>	<u>USFS</u>
Clint Bitton	Jack Jensen	Grant Thorson
Logan Williams		
<u>ISCC</u>	<u>IDWR</u>	<u>Fish & Game</u>
Leland Sasser	Bill Rhoads	Paul Jeppson
<u>Irrigation Dist.</u>	<u>EPA</u>	<u>Arco Adv.</u>
J. Doyle Jensen	Steve Provant	Don Cammack

The meeting began at 7:00 p.m. with Jack Jensen giving the Introduction.

Tony Bennett -

Gave project overview. Field work for the project started in October 1979. Paul Krupin took some arial photos of the Big Lost River from the Mackay Reservoir to the Bartlett Point Bridge. Soil Surveys have been completed. The gabions are on the sites and some have already been put together. Tony thanked all of the land-owners and individuals and agencies for their cooperation and interest. We have some volunteers from Trout Unlimited and Boy Scouts to help at the sites.

Paul Krupin -

We'd also like to thank Fish and Wildlife and Chuck Mowry for their efforts.

Bob Lehman -

Gabion Installation - Explained the importance of the size of rocks to be used. He drew a diagram and explained how the water rides up on the bank of the upper site. The lower site is on Lincoln Zollingers land and a problem was noted because of the depth of a scour that has developed at the critical point and has caused concern. Other alternatives are going to be reviewed before construction begins.

Don Martin -

Asked about access problems on upper site.

Bob L. -

We will be using drag line and frontend loaders.

Don M. -

How are you going to fill gabion baskets?

Bob L. -

Experiment. Flat end open towards river - should be easier to fill.

Don Kissig -

Slide Show - Explained what type of wire is used for each project and why. Showed slides of different projects and follow up on gabions years after their installation. Explained the wiring and assembling of gabions along with slides of examples. As many gabions as possible should be assembled and placed before filling. To fill, a backhoe, frontend loader, elevator, crane and cement bucket can be used. If using a cement bucket it is recommended it is made special for the project so the size will be just right.

Bob L.-

How does concrete compare with gabions in cost for lining ditches?

Don K. -

Gabions are cheaper for smaller projects and higher for bigger projects.

Slides cont. - Slides of gabions used for roads that have water continually flowing over them.

Bob L. -

Do the gabions have to be covered the full length with cement when their going to be driven on?

Don K. -

Yes. They should be covered the full length.

Filter cloth is used where fine soil is present to prevent it from washing out from under the gabions.

Paul Krupin -

Infrared Presentation on the length of the Big Lost River 208 Project on Sedimentation and bedload.

Examples of debris used on David Smiths land. He has been using this practice for 7 years to control river bank. Also examples of Rip Rap.

Tony B. -

We are not using Rip Rap for these project sites. We are concerned with the Key Meanders and holding onto the key problems to work with deposition removal and sedimentation. We need all the support we can get at the construction sites.

Bill Rhoades -

Does activity exccellerate erosion? Is this natural? How can it be prevented?

Tony B. -

Yes. It is both natural and some aggravated by man.

Paul K. -

We've learned from mistakes made in the past working with the stability of the river. We're finding out the types of problems. Some of the problems are from extreme climatic events and land use.

Larry Silvers -

Background on getting government finances. We're finally getting to the top of things. Now lets Protect and Prevent.

Don M. -

Added benefits of project. Coordinated efforts among agencies and landowners.

Paul Jeppson -

Is it in plan to do snagging?

Tony B. -

Yes. It's an ongoing situation.

Jack Jensen -

Gave suggestion - Looking at old drop structures - if they're not good why not cut them and drop down?

How do we prevent landowners, county highway, etc. from interfering with our plan?

Bill R. -

How do we prevent intruders? Who's responsible to see that it doesn't happen?

Jack J. -

Good point. Possibly policing. It's our responsibility. Keep the public informed and involved.

Bill R. -

We know the adverse effects if we don't. Explain we're working on an overall project and we're willing to discuss it with them.

Doyle - Irrigation District

We don't do upstream or downstream work with the dredger.

Steve Provant -

The life of the reservoir is extended because of this project. The irrigation district should be involved. They benefit from it too.

Jack J. -

That's why we have Doyle here tonight.

Steve P. -

We strive for an ongoing plan. The project is on base - good 208 project.

Jack J. -

It will be good to have an ongoing plan that can always be continued as we leave and others take over.

Those Present at Public Participation Meeting on September 16, 1980.

<u>NAME</u>	<u>REPRESENTING</u>
Tony Bennett	SCS Arco
Jack Jensen	Butte SCD
Grant Thorson	USFS
Clint Bitton	Landowner
Marvin Goddard	Landowner
Leland Sasser	Idaho Soil Conservation Commission
Bill Rhoads	Idaho Department of Water Resource.
Bob Lehman	Soil Conservation Service
Herbert Whitworth	Landowner
Paul Jeppson	Idaho Fish and Game
J. Doyle Jensen	Irrigation Dist.
Don Cammack	Arco Advertiser
Bill Jolley	SCS
Cindy Smith	SCD
Terrence Donahue	Landowner
Steve Provant	EPA
Donals M. Martin	Id. Dept. Health & Welfare-Div. of Environment
Logan E. Williams	Landowner
Larry D. Silver	ASCS
Paul J. Krupin	Salmon BLM
Bardonna Zollinger	Landowner