



A&B Irrigation District

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A&B Irrigation District (A&B) has been required to pay for deeper production wells, increased pump capacity, more-efficient conveyance systems and increased power use because of declining ground water levels in the Eastern Snake Plain Aquifer. A&B has compiled an estimate of the costs which are detailed in separate fiscal accounts (summarized below). This estimate only includes the costs described above incurred as a result of declining ground water levels and does not include other normal maintenance, power or infrastructure costs.

Account #472 - Reclamation Water Management Program. Well & Pump System Rehab.

This account is a reclamation water management program for the purpose of eliminating or reducing operational losses through conveyance efficiency improvements. This account also includes costs for rehabilitation of pumping wells required from declining ground water levels. Costs are detailed on the spreadsheets, "Well & Pump System Rehab- Acct #472.xls" and "Conveyance Efficiency Improvements - Acct.# 472.xls".

Account #445 - Production Well Deepening, Well & Pump System Rehab

This is an account established to track the improvement costs for pumps and wells needed due to declining pump discharges caused by the decline of ground water levels in the aquifer. Costs are detailed on the spreadsheet, "Well & Pump System Rehab- Acct #445.xls".

Power Account - Usage from USBR Billing Summaries

This account tracks costs paid per kwh and per acre-foot for ground water pumped by wells. A summary is included in the enclosed spreadsheet, "A&B Power Costs.xls", that shows the costs from higher power use required to pump ground water at deeper levels than prior to 1980.

The total cost for well improvement and deepening, infrastructure improvement and additional power costs due to declining ground water levels since 1980 is \$7,951,849 (2008 dollars) and is summarized in the table below. A 3.2 percent annual inflation factor was included to adjust to 2008 dollars. Detailed cost accounting spreadsheets for each account are attached. This estimate does not include costs for wells that need to be but have not yet been deepened or upgraded. The estimate also does not include costs for other infrastructure or well improvements that will be needed if ground water levels continue to decline in the future.

Sincerely,

Dan Temple
A&B Irrigation District Manager

Summary of A&B Costs from Declining Ground Water Levels

1/22/2008

Account	Total Material Cost	Total Direct Labor Cost	Total Indirect Labor Costs	Total Equipment Cost	TOTAL	Yearly Total Cost adjusted to 2008 dollar value
Conveyance Efficiency Improvements - Acct. # 472	\$302,976	\$132,894	\$43,855	\$520,454 *	\$1,000,179	\$1,150,366
Well & Pump System Rehab- Acct. # 472	\$135,969				\$135,969	\$155,922
Well & Pump System Rehab- Acct #445.xls	\$2,642,375	\$535,594 *	\$176,746		\$3,354,714	\$3,399,368
A&B Power Cost.xls						\$3,246,193
TOTAL	\$3,081,320	\$668,488	\$220,601	\$520,454	\$4,490,863	\$7,951,849

Notes:

1. Summary does not include the future costs of needed rehabilitation of the pumps currently producing less than the .75 criteria, estimated costs about \$250,000 for this work.
2. Acct # 472 was a reclamation water management program for the purpose of eliminating or reducing operational losses through conveyance efficiency improvements
3. Acct. #445 - This is an account established to track pump and well material and contract labor costs associated with declining pump discharges caused by the decline of the aquifer. It does not track District labor or equipment costs.
4. Inflation to 2008 dollars from previous-years costs was accomplished using an annual inflation rate of 3.2 percent based on US Dept. of Labor statistics.

* = Estimated Costs