



POSO CREEK

IRWMP Group | August 2015

2015 IRWMP Implementation Proposal

Attachment 4 - Project Budget



**NORTH KERN WATER
STORAGE DISTRICT**

North Kern Water Storage District
33380 Cawelo Avenue
Bakersfield, CA 93308



POSO CREEK IRWMP

Management Group

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Attachment 4 – Project Budget

4.1. PROJECT BUDGET

Project budgets have been produced in accordance with engineering standard costs estimating procedures, utilizing table formats provided in the 2015 IRWM Guidelines. Information was obtained from actual expenditures for several of the completed project components. Estimates are provided for components that are in development and verified by Project Engineers using available information from vendors, sub-consultants, and professional experience (references cited). Budgets are organized by tasks that match the Work Plan and Schedule. Project budgets are utilized for the cost benefit analysis in Attachment 2.

“Project 0” Budget

Table 8 – Project Budget				
Proposal Title: Poso Creek IRWM Group 2015 IRWM Implementation Proposal				
Project Title: “Project 0” - Grant Administration				
Project serves a need of a DAC?: No				
Funding Match Waiver request?: No				
Category	(a)	(b)	(c)	(d)
	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a) Direct Project Administration				
Task 1: Agreement Administration	\$66,450	\$22,150	\$0	\$88,600
<i>Task 1.1 - Grant Management</i>	\$0	\$0	\$0	\$13,600
<i>Task 1.2 - Grant Application</i>	\$0	\$0	\$0	\$75,000
Task 2: Invoicing	\$6,150	\$2,050	\$0	\$8,200
Task 3: Progress Reports and Project Completion Reports	\$4,100	\$1,300	\$0	\$5,400
(e) Grand Total	\$76,700	\$25,500	\$0	\$102,200

Grant Administration Project (Project 0) involves coordination between North Kern and DWR to administer funds received from a Proposition 84, 2015 IRWM Implementation Grant award, and responding to associated reporting and compliance requirements for each of the proposed projects. **Total Project 0 costs are estimated at \$102,200 with \$76,700 in requested grant funds and \$25,500 (or 25-percent) in Non-State Cost Share Funding Match.**

Row (a) Direct Project Administration:

Task 1 – Agreement Administration: Costs for coordination of the agreement administration activities of this Proposal with DWR requirements and project managers are based on experience by the grantee and agencies involved in this application. In this regard, 0.25 percent of each project’s total budget is directed to this task. In addition, \$75,000 is included as previously incurred costs associated with producing the grant application.

Task 2 – Invoicing: Costs for compiling invoices from each project of the Proposal are based on experience by the grantee and agencies involved with the proposed projects and invoicing activities for DWR-funded projects. In this regard, 0.15 percent of each project’s total budget is directed to this task.

Poso Creek IRWM Group 2015 IRWM Implementation Proposal Project Budget

Task 3 - Progress Reports and Project Completion Reports: Costs for compiling the progress and completion reports for each project are based on experience by the grantee and agencies involved with the proposed projects. It is anticipated that only a total of five quarterly progress reports will be submitted (Project 1: two reports; Project 2: three reports). In addition, a project completion report will be submitted for each project and one overall Grant completion report. In this way, 0.10 percent of each project's total budget is directed to assistance in producing reports.

Project 1 Budget

Table 8 - Project Budget					
Proposal Title: <u>Poso Creek IRWM Group 2015 IRWM Implementation Proposal</u>					
Project Title: <u>Project 1 - North Kern WSD Drought Relief Project</u>					
Project serves a need of a DAC?: No					
Funding Match Waiver request?: No					
Category	(a)	(b)	(c)	(d)	
	Requested Grant Amount	Cost Share: Non-State Fund Source (Funding Match)	Cost Share: Other State Fund Source	Total Cost	
(a) Direct Project Administration					
Task 1: Project Management	\$31,300	\$10,400	\$0	\$41,700	
Task 2: Labor Compliance	\$4,500	\$1,500	\$0	\$6,000	
Task 3: Reporting	\$8,300	\$2,700	\$0	\$11,000	
<i>Task 3.1 -Quarterly Reporting</i>	<i>\$4,150</i>	<i>\$1,350</i>	<i>\$0</i>	<i>\$5,500</i>	
<i>Task 3.2 - Final Report</i>	<i>\$4,150</i>	<i>\$1,350</i>	<i>\$0</i>	<i>\$5,500</i>	
(b) Land Purchase/Easement					
Task 4: Land Purchase	\$0	\$0	\$0	\$0	
(c) Planning/Design/Engineering/ Environmental Documentation					
Task 5: Feasibility Studies	\$0	\$0	\$0	\$0	
Task 6: CEQA Documentation	\$0	\$65,000	\$0	\$65,000	
Task 7: Permitting	\$0	\$3,600	\$0	\$3,600	
Task 8: Design	\$0	\$156,000	\$0	\$156,000	
Task 9: Project Performance Monitoring Plan	\$7,500	\$2,500	\$0	\$10,000	
(d) Construction/Implementation					
Task 10: Contract Services	\$10,600	\$3,500	\$0	\$14,100	
<i>Task 10.1 - Proposal Solicitation</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$9,100</i>	
<i>Task 10.2 - Env. Compliance</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$5,000</i>	
Task 11: Construction Administration	\$117,000	\$39,000	\$0	\$156,000	
Task 12: Construction/ Implementation Activities	\$2,931,700	\$977,200	\$0	\$3,908,900 ¹	
(e) Grand Total	\$3,110,900	\$1,261,400	\$0	\$4,372,300	

¹ Construction costs are based on the Design Engineer's Estimate for items to be furnished and installed. A contractor pricing to furnish and install will be obtained in August, 2015.

Poso Creek IRWM Group 2015 IRWM Implementation Proposal Project Budget

The North Kern WSD Drought Relief Project (Project 1) involves the installation of a 14,900 linear-foot pipeline to convey oil-field produced water from an existing CRC-owned pipeline (existing pipeline) to the district's Rosedale Spreading Ponds. The proposed pipeline will extend westward through North Kern right-of-ways and easements from the existing pipeline to the spreading ponds. **Total Project 1 costs are estimated at \$4,372,300 with \$3,110,900 in requested grant funds and \$1,261,400 in Non-State Cost Share Funding Match, which equates to a 29-percent Non-State Cost Share Funding Match.**

The costs associated with (a) Direct Project Administration will be supported by 75-percent Grant Funding and 25-percent Non-State Cost Share Funding Match unless stated otherwise. Since construction of the pipeline is starting in September, 2015, the local sponsor (North Kern) will continue to work with Zeiders Consultants, Bakersfield, CA and GEI Consultants, Inc., Bakersfield, CA - both firms being experienced in pipeline installation in Kern County. The Project 1 budget is based on incurred costs for design and environmental documentation for work completed and on the Design Engineer's estimates from recent pipeline installation by CRC for the cost of construction items to be furnished and installed, permitting, and administration². All incurred costs identified and included in the budget have been incurred after January 17, 2014. Budget tables were prepared by the District Engineer to support the overall Project 1 budget and budget narrative. Contractor pricing to furnish and install the construction items will be obtained in August, 2015. Hourly wage by discipline for North Kern staff and consultants are shown below.

NKWSD District Staff					Consultants			
Budget/ Accountant	Admin	Engineer	Consultant Contract	District Counsel	Principal	Managing Senior	Engineer	Staff/ Admin
					Grade 7	Grade 6	Grade 4	Grade 1-2
\$80	\$35	\$85	\$150	\$200	\$225	\$190	\$141	\$109

Row (a) Direct Project Administration:

Task 1 – Project Management: This task consists of administrative responsibilities associated with the Project such as managing consultants/contractors as necessary for effective execution of the Project and compliance with grant requirements. The total budget for Task 1 was estimated to be approximately 1 percent of the total project cost.

Task 2 – Labor Compliance: Work under this task will include implementing a Labor Compliance Program (LCP) during construction. The total cost of the LCP was based on monthly billings of Quad Knopf³, a third-party consultant who has implemented LCPs for previous DWR-funded North Kern projects in the Poso Creek region. These monthly billings (based on \$2,000 per month from similar completed projects) were multiplied by the number of months of construction (3 months) to arrive at a total cost for implementation of the LCP.

Task 3 – Reporting: The budget for this task was estimated on the likelihood of a 4-month overlap between commencement of the Grant Agreement and completion of the Project including project close out. The budget estimate is based on the costs for preparing two quarterly reports and a project completion report. Since construction of this project is scheduled from September 2015 to December 2015, the reporting on this project is expected to be completed within months after signing the DWR grant agreement and not require more than two reporting periods. The Grantee will provide DWR with a complete record of construction activity and construction-related expenditures should the Project receive funding.

Row (b) Land Purchase/Easement:

Task 4 – Land Purchase/Easement: There are no costs presented for Budget Category (b) as the proposed pipeline will be constructed within District-owned rights-of-way and District-maintained easements.

² Detailed budget for this Project is included as Appendix A.

³ Monthly Fee (May-June 2015) to implement the Quad Knopf Labor Compliance Program for Construction of the Calloway Canal Lining Project is provided as Appendix B.

Row (c) Planning/Design/Engineering/Environmental Documentation:

Task 5 – Feasibility Studies: Costs for this task were included as part of the previously incurred costs embedded in Task 8: Design and provided as part of the Funding Match.

Task 6 – CEQA Documentation: Costs incurred for this task are for an Initial Study/Mitigated Negative Declaration and related documents that have already been prepared for the Project. This incurred cost is provided as part of the Funding Match.

Task 7 – Permitting: Costs listed under this task include those estimated for preparation of a Storm Water Pollution Prevention Control Plan for compliance with the Clean Water Act and of a PM-10 Dust Control Plan. Costs for preparation of these plans by the contractor are included as part of the Funding Match.

Task 8 – Design: Work under this task is complete. Costs for this task, including the District’s feasibility evaluation, are about four percent of construction costs and are included as part of the Funding Match.

Task 9 – Project Performance Monitoring Plan: Estimates for this task were based on the effort required to develop and implement Project Assessment and Evaluation Plans (PAEPs) for other comparable DWR-funded projects. Approximately 0.25% of total Project costs will be reserved to develop and implement the Project Performance Monitoring Plan.

Row (d) Construction/Implementation:

Task 10 – Contract Services: Costs under this task include the district’s legal counsel and work required for environmental compliance such as utilizing a certified biologist to conduct a pre-construction biological survey and prepare a report. A certified biologist, who routinely provides service to North Kern, was consulted and provided a cost estimate, embedded in the cost for this task⁴. Also included in this task are activities associated with proposal solicitation, such as contacting contractors for proposals and reproduction of plans and specifications. Since the North Kern Board of Directors has authorized staff to implement the Drought Relief Project using an expedited contracted pricing process, the associated cost for contract services is less effort than for a formal bid process.

Task 11 – Construction Administration: Work under this task involves all contract administration and field inspection during construction. Four percent of construction costs have been allocated for this task as construction will only span three months. Specific travel expenses were calculated for local travel by an inspector and the project manager for travel to the project site. The Project Manager will travel to the project site once a week to attend weekly construction progress meetings while the Inspector will be on site daily. For this task, the mileage was calculated as follows:

- Project Manager = 25 miles/roundtrip x 1 roundtrip/week x 12 weeks of construction = 300 miles
- Inspector = 40 miles/roundtrip x 66 roundtrips = 2,640 miles

Task 12 – Construction/Implementation Activities: The estimated costs for the construction are based on an Engineer’s Estimate prepared by the design consultant. Construction Components consist of: (1) 13,700 LF 24” Buried Pipeline from Section 30 to Rosedale Spreading Ponds; (2) Highway 99 / UPRR Bore; (3) Friant-Kern Canal Crossing; (4) Zerker Road crossing Bore; (5) Verdugo Road open cut; (6) Calloway / CT-1 Crossing; (7) Meter Station; (8) 1,200 LF 24” Buried Pipeline from Meter Station to West Pond; (9) electrical, instrumentation, and control; (10) inspections; (11) safety; (12) start-up and commissioning.

⁴ Fees for environmental compliance activities for the Calloway Canal Lining Project are also included as Appendix C.

Poso Creek IRWM Group 2015 IRWM Implementation Proposal Project Budget

Project 2 Budget

Table 8 – Project Budget					
Proposal Title: Poso Creek IRWM Group 2015 IRWM Implementation Proposal					
Project Title: Lost Hills Utility District New Well No.3					
Project serves a need of a DAC?: Yes					
Funding Match Waiver request?: Yes					
Category	(a)	(b)	(c)	(d)	
	Requested Grant Amount	Cost Share: Non-State Fund (Funding Match)	Cost Share: Other State Fund	Total Cost	
(a) Direct Project Administration					
Task 1: Project Management	\$10,400	\$0	\$0	\$10,400	
Task 2: Labor Compliance	\$10,000	\$0	\$0	\$10,000	
Task 3: Reporting	\$12,500	\$0	\$0	\$12,500	
<i>Task 3.1 - Quarterly Reporting</i>	\$7,500	\$0	\$0	\$7,500	
<i>Task 3.2 - Final Report</i>	\$5,000	\$0	\$0	\$5,000	
(b) Land Purchase/Easement					
Task 4: Land Purchase	\$0	\$0	\$0	\$0	
(c) Planning/Design/Engineering/ Environmental Documentation					
Task 5: Feasibility Studies	\$18,000	\$0	\$0	\$18,000	
Task 6: CEQA Documentation	\$50,000	\$0	\$0	\$50,000	
Task 7: Permitting	\$3,200	\$0	\$0	\$3,200	
Task 8: Design	\$0	\$0	\$0	\$265,000	
<i>Task 8.1 - 60% Design</i>	\$0	\$0	\$195,000	\$195,000	
<i>Task 8.2 - 100% Design</i>	\$70,000	\$0	\$0	\$70,000	
Task 9: Project Performance Monitoring Plan	\$2,600	\$0	\$0	\$2,600	
(d) Construction/Implementation					
Task 10: Contract Services	\$21,000	\$0	\$0	\$21,000	
<i>Task 10.1 - Bid Process</i>	\$0	\$0	\$0	\$17,000	
<i>Task 10.2 - Env. Compliance</i>	\$0	\$0	\$0	\$4,000	
Task 11: Construction Administration	\$31,900	\$0	\$0	\$31,900	
Task 12: Construction/Implementation Activities	\$637,000	\$0	\$0	\$637,000 ⁵	
(e) Grand Total	\$866,600	\$0	\$195,000	\$1,061,600	

The Lost Hills Utility District (LHUD) New Well No. 3 Project involves the installation of a new well to provide potable water to a DAC struggling with an increasingly unreliable water supply. **The total Project cost is estimated at \$1,061,100 with \$866,600 in requested grant funds and \$195,000 in previously awarded DWR funding. Since the project will fully serve a DAC, a funding match waiver will be submitted and no funding match will be provided.**

⁵ Engineer Consultant cost estimate provided from the 2015 Preliminary Engineers Report, written by Cannon for LHUD.

Poso Creek IRWM Group 2015 IRWM Implementation Proposal Project Budget

The local sponsor, LHUD, has identified an engineering consulting firm (Cannon) to assist in completing the work for this Project. The Engineering Consultant has provided similar services to LHUD under the Round 1 Implementation Grant and the budget presented in this proposal is based on recent experience by the Engineering Consultant with providing similar services to the local sponsor⁶. All incurred costs included in the budget have been incurred after January 17, 2014. The Project will be staffed by the local sponsor's Engineering Consultant who will provide design, construction management, administrative, and reporting assistance. LHUD's staff time will be limited to the required coordination and oversight. Hourly wage by discipline for LHUD staff and consultants are shown below.

LHUD District Staff					Consultants					
Budget/ Acct	Admin	Eng.	Consult. Contract	District Counsel	Senior Principal	Principal	Survey Crew	Assoc. Eng.	Inspec/ Drafter	Staff/ Admin
\$80	\$35	\$85	\$150	\$200	\$195	\$160	\$210	\$145	\$115	\$85

Row (a) Direct Project Administration:

Task 1 – Project Management: This task consists of administrative responsibilities associated with the Project such as managing consultants/contractors as necessary for effective execution of the Project and compliance with grant requirements. The total budget for Task 1 was estimated to be approximately 1 percent of the total project cost.

Task 2 – Labor Compliance: Work under this task will include implementing a Labor Compliance Program (LCP) during construction. The total cost of the LCP was based on monthly billings for Quad Knopf, a third-party consultant who has implemented LCPs for previous projects in the Poso Creek region, and for which North Kern WSD will also be using for Project 1. These monthly billings (\$2,000 per month) were multiplied by the number of months of construction (4 months) to arrive at a total cost for implementation of the LCP. LHUD, as a sub-grantee to NKWSD, will utilize NKWSD's approved LCP on this project.

Task 3 – Reporting: Work under this task will include preparing all project reports as required under the Grant Agreement. It is expected that the Engineering Consultant will assist the local sponsor in preparing and submitting 3 quarterly reports. The total budget for Task 3 was based on previous experience by the Engineering Consultant in providing similar services to LHUD as part of the Round 1 Implementation grant.

Row (b) Land Purchase/Easement:

Task 4 – Land Purchase/Easement: There are no costs presented for Budget Category (b) as the proposed Project will be constructed on property owned by LHUD. It is anticipated that acquisition of easements will not be required.

Row (c) Planning/Design/Engineering/Environmental Documentation:

Task 5 – Feasibility Studies: Work under this task consisted of preparation of a Preliminary Engineering Design Report, which was completed June, 2015 by the Engineering Consultant. The report determined the feasibility of six alternatives identified to respond to drought conditions in LHUD.

Task 6 – CEQA Documentation: Costs for this task are calculated as previously incurred costs for CEQA documentation prepared for the Project. The proposed Project does not involve any direct or indirect environmental impacts other than temporary construction impacts; an Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared and circulated, and was adopted by the LHUD Board of Directors on October 2, 2014.

Task 7 – Permitting: Only over-the-counter permits obtainable by the selected contractor, related to construction, such as, Storm Water Pollution Prevention Control Plan (SWPPP) for compliance with the Clean Water Act, a PM-10 Dust Control Plan, and a water well permit will be required. An application will be made for these permits prior to construction. A well permit will be obtained from Kern County prior to construction of the well. The County was

⁶ Detailed budget for this Project is provided as Appendix D.

contacted by the Engineering Consultant in preparing budget estimates to obtain information regarding permit filing fees and other applicable costs.

Task 8 – Design: 60% design is currently being accomplished through the previously awarded DWR technical assistance funding. Remaining work for 100% design will be completed at a cost of \$70,000, which includes drilling a pilot hole at a cost of \$25,000. The costs for completion of design are included in the requested grant amount.

Task 9 – Project Performance Monitoring Plan: Estimates for this task were based on the effort required to develop and implement Project Assessment and Evaluation Plans (PAEPs) for other comparable DWR-funded projects. Approximately 0.25% of total Project costs will be reserved to develop and implement the Project Performance Monitoring Plan.

Row (d) Construction/Implementation:

Task 10 – Contract Services: Work under this task includes advertising for solicitation of bid proposals, as well as the cost of legal services to support the project, costs associated with obtaining licenses and permits, and environmental compliance and mitigation costs. The Engineering Consultant has provided bid-phase services to LHUD for many years for projects of similar scope and complexity; this experience is the basis for the costs shown for Task 10. Work for environmental compliance involves retaining a certified biologist to conduct a pre-construction biological survey and prepare a report. A certified biologist was consulted and provided a cost estimate, included as part of this task. Based on an Engineer’s cost estimates by Cannon, contract service scope for the costs will include: (1) bidding and contract award phase services, (2) permitting, (3) bond counsel, (4) legal counsel, and (5) advertisement.

Task 11 – Construction Administration: Work under this task involves all contract administration and field inspection during construction. Five percent of construction costs have been allocated for this task based on experience by the Engineering Consultant.

Task 12 – Construction/Implementation Activities: Work under this task includes construction and implementation of the project work. LHUD, working with their Engineering Consultant, has estimated construction costs for project elements that include: well development, zone testing, pump casings, procurement and installation of a pump and motor, aboveground piping and valves, instrumentation and electrical components, and 1,300 feet of 8-inch diameter buried pipeline⁷.

⁷ A detailed estimate for construction costs provided by the Engineering Consultant are included as Appendix E.

Poso Creek IRWM Group 2015 IRWM Implementation Proposal Project Budget

4.2. PROPOSAL BUDGET

The Proposal Budget Summary below includes the requested grant amount, local cost share, total project cost, and percentage of funding match. With the DAC Funding Match Waiver, the percent funding match of the non-DAC project is 29%.

Table 9 - Proposal Budget						
Proposal Title: <u>Poso Creek IRWM Group 2015 IRWM Implementation Proposal</u>						
Individual Project Title		(a)	(b)	(c)	(d)	(e)
		Requested Grant Amount	Cost Share: Non-State Fund Source (Funding Match)	Cost Share: Other State Funding Sources	Total Cost	% Funding Match (b/d)
(a)	Project 0: Grant Administration	\$76,700	\$25,500	\$0	\$102,200	25%
(b)	Project 1: North Kern Drought Relief Project	\$3,110,900	\$1,261,400	\$0	\$4,372,300	29%
(c)	Project 2: Lost Hills Utility District New Well No.3	\$866,600	\$0	\$195,000	\$1,061,600	0%
(e)	Proposal Total <i>Sum rows (a) through (d) for each column</i>	\$4,054,200	\$1,286,900	\$195,000	\$5,536,100	
(f)	DAC Funding Match Waiver Total <i>Sum column (d) only for projects seeking DAC funding match waiver in rows (a) through (d)</i>	\$0	\$0	\$0	\$1,061,600	
(g)	Grand Total <i>Subtract row (f) from row (e) for column (d) and recalculate column (e)</i>	\$4,054,200	\$1,286,900	\$195,000	\$4,474,500	29%

Appendix A

Project 1 Budget Details (Break-Down)

Project 1 Budget Details

Task		District Staff					Consultants				Other Costs	Total Labor Hours	Total In-Kind Costs
		NKWSD Budget/ Acct	NKWSD Admin	NKWSD Eng.	Consult. Contract	District Counsel	Principal Grade 7	Managing Senior Grade 6	Engineer Grade 4	Staff/ Admin Grade 1-2			
Number	Name	\$80	\$35	\$85	\$150	\$200	\$225	\$190	\$141	\$109			
1	Project Management	Estimated as 1% of Total Project Costs										0	\$ 41,677
2	Labor Compliance										\$ 2,000	3	\$ 6,000
3	Reporting	8						16	48	8		80	\$ 11,320
	3.1 -Quarterly Reporting	4						8	24	4		40	\$ 5,660
	3.2 - Final Report	4						8	24	4		40	\$ 5,660
4	Land Purchase/Easement	No Land Purchase/Easement Associated With This Project											
5	Feasibility Studies	Included in Design Costs											
6	CEQA Documentation	Previously Accrued Costs											\$ 65,000
7	Permitting							8		4	\$ 1,600	12	\$ 3,556
8	Design	Estimated as 4% of Construction Costs											\$ 156,355
9	Project Performance Monitoring Plan	Estimated as .25% of Total Project Costs											\$ 10,873
10	Contract Services	0	6	10	56	0	16	0	16	12	0	116	\$ 16,624
	10.1 - Proposal Solicitation		6	10	6		16		16	12		66	\$ 9,124
	10.2 - Env. Compliance				50							50	\$ 7,500
11	Construction Administration	Estimated as 4% of Construction Costs											\$ 156,355
12	Construction/ Implementation Activities	Engineer's Estimate provided by CRC Project Engineer, Contractor Pricing for Construction to be obtained in August 2015.											\$ 3,908,880

Appendix B

Quad Knopf Labor Compliance Monthly Fee (Calloway Canal Pipeline)

Invoice



Quad Knopf
P.O. Box 3699⁹⁷²
Visalia, CA 93278
(559) 733-0440

June 14, 2015
Project No: 150212
Invoice No: 80763

David Ansolabehere
CAWELO WATER DISTRICT
17207 Industrial Farm Road
Bakersfield, CA 93308

8/19/15

Project Manager: Joel Joyner

Project: 150212 Labor Compliance Services/NK608 Constructing the Calloway Canal Lining Project

Professional Services for the Period: May 10, 2015 to June 06, 2015

Phase: 02 Weekly review of Certified Payroll Reports

Number of units	4.00
Fee Each	500.00
Fee Total	2,000.00

Fee Total 2,000.00

Phase Total \$2,000.00

Total Project Invoice Amount \$2,000.00

15-410

Terms Net 30 Days

*16250
16253
16256
16257
16258*

CAWELO WATER DISTRICT
RECEIVED

JUN 19 2015

3001 DUBOIS ENGINEER
ATTN: BARRY G. FILE

Appendix C

Environmental Compliance Fee (Calloway Canal Pipeline)

William J. Vanherweg

Certified Wildlife Biologist

• Biological Surveys • Impact Analysis • Regulatory Agency Consultation
• Mitigation Design • Habitat Management & Conservation Planning

1020 O'Connor Way
San Luis Obispo, California 93405

FAX (805) 839-0375
(805) 456-2163

Invoice

28 April 2015

To: North Kern Water District

For: Calloway/Reach A, Lining project.

TASK		COST
3/05/15	Swallow survey Rosedale bridge 6 hrs	\$ 600.00
4/23/15	Preactivity Survey 7 hrs	\$ 700.00
4/27/15	Report 2 hrs	\$ 200.00
Mileage	568 miles x \$0.55	\$ 312.40
TOTAL Due		\$ 1,812.40

Appendix D

Project 2 Budget Details (Break-Down)

Project 2 Budget Detail

Task		LHUD District Staff					Consultants							Other Costs	Total Labor Hours	Total In-Kind Costs	
		Budget/ Acct	Admin	Eng.	Consult. Contract	District Counsel	Senior Principal	Principal	Survey Crew	Staff	Assoc. Eng.	Inspec./ Drafter	Admin				
Number	Name	\$80	\$35	\$85	\$150	\$200	\$195	\$160	\$210	\$130	\$145	\$115	\$85				
1	Project Management	Estimated as 1% of Total Project Costs															\$ 10,409
2	Labor Compliance													\$ 2,000	5	\$ 10,000	
3	Reporting	10						0				0	14		24	\$ 12,790	
	3.1 -Quarterly Reporting	6			12					36			8		62	\$ 7,640	
	3.2 - Final Report	4			8					24			6		42	\$ 5,150	
4	Land Purchase/Easement	No Land Purchase/Easement Associated With This Project															
5	Feasibility Studies	Previously Accrued Costs															\$ 18,000
6	CEQA Documentation	Previously Accrued Costs															\$ 50,720
7	Permitting							8					4	\$ 1,600	12	\$ 3,220	
8	Design															\$ 265,000	
	Task 8.1 - 60% Design													195000		\$ 195,000	
	Task 8.2 - 100% Design													70000		\$ 70,000	
9	Project Performance Monitoring Plan	Estimated as .25% of Total Project Costs															\$ 2,628
10	Contract Services	0	0	0	0	0	24	0				35	42	2640	153	\$ 12,275	
	10.1 - Bid Process						24	0	0	36	16	0	42	2640	118	\$ 17,890	
	10.2 - Env. Compliance											35			35	\$ 4,025	
11	Construction Administration	Estimated as 5% of Construction Costs															\$ 31,850
12	Construction/ Implementation Activities	Construction Costs Based on Engineer's Estimate															\$ 637,000

Appendix E

Project 2 Well Drilling Construction Cost Estimate

Prop. 84 - Integrated Regional Water Management Grant
 Project 2 - Lost Hills New Well No.3
 Well Construction Estimate

Item No.	Description	Estimated Quantity	Unit	\$/Unit	Total Cost
PROJECT-WIDE ITEMS					
1	Mobilization/Demobilization	1	LS	\$ 45,000	\$ 45,000
2	Pilot Well Drilling	1	LS	\$ 80,000	\$ 80,000
3	Surveying and Staking	1	LS	\$ 1,500	\$ 1,500
4	Soils and Concrete Testing	1	LS	\$ 1,500	\$ 1,500
NEW WELL CONSTRUCTION					
5	8-inch Water Line	1,300	LF	\$ 80	\$ 104,000
6	Appurtances	1	LS	\$ 65,000	\$ 65,000
7	Well Drilling and Conductor	600	LF	\$ 400	\$ 240,000
8	Well Mechanical	1	LS	\$ 85,000	\$ 85,000
9	Misc. (SWPPP, Environmental)	1	LS	\$ 15,000	\$ 15,000
TOTAL COSTS					\$ 637,000

Notes:

1. Costs based on 2013-level prices.
2. Engineer's cost estimate based on the completion of concept-level design.
3. Estimate prepared based on recent experience with projects implemented that are similar in scope and complexity.