

Board of Public Utilities

AGENDA

October 20, 2010

5:30 p.m.

DPU Conference Room

**170 Central Park
Square**

Los Alamos, NM 87544

Paul Smith, Chair
D. Christopher Ortega, Vice Chair
Timothy R. Neal, Member
Thurman Talley, Member
Glenn Woodwell, Member
John Arrowsmith, Utilities Manager

- ☐ Call to Order
- ☐ Public Comment
- ☐ Chair's Report
- ☐ Board Member Reports
- ☐ Manager's Report
- ☐ County Administrator's Report
- ☐ Approval of Previous Meeting Minutes Pg 1-9
- ☐ New Business
 - A. Board Policy on Unsolicited Proposals – Paul Smith Pg 10-11
 - B. Rate and Reserve Policy – John Arrowsmith for Janet Bettinger Pg 12-14
 - C. Bid Approval for Underground Cable – Rafael De La Torre Pg 15-17
 - D. Approval of Septic Hauler Bid – Tim Glasco Pg 18-36
 - E. Approval of San Juan / Chama Study Bid – James Alarid Pg 37-70
 - F. Los Alamos Reservoir Project Update – Tim Glasco Pg 71-73
- ☐ Tickler File Pg 74-75
- ☐ Status Reports
 - A. Diamond Drive Phase 4 and Phase 5 Pg 76-80
 - B. Electric Distribution Reliability Pg 81-85
 - C. Active Accounts Receivables Over 90 Days Past Due Pg 86-88
- ☐ Adjournment

MINUTES
Board of Public Utilities
Meeting
August 18, 2010
and
September 15, 2010

BOARD OF PUBLIC UTILITIES MEETING

August 18, 2010
DPU Conference Room - 170 Central Park Square
Los Alamos, NM

MEMBERS PRESENT:

Paul Smith, Chair
Chris Ortega, Vice-Chair
Tim Neal, Member
Glenn Woodwell, Member

OTHERS PRESENT:

John Arrowsmith, Utilities Manager
James Alarid, Dep. Util. Mgr. Engineering
Rafael De La Torre, Dep. Util. Mgr. Elec. Distribution
Tim Glasco, Deputy Utilities Manager
Stephen Marez, Assoc. Engineer / Electric Distribution Services
Julie Williams-Hill, Public Relations Manger, DPU
Deni Fell, Customer Care Representative
Una Smith, Presenter
Mike Steinzig, Environmental Sustainability Board Member
David Powell, Member of the Public

Absent:

Thurman Talley, Member

I. CALL TO ORDER

Mr. Smith called the meeting to order at 5:30 pm.

II. PUBLIC COMMENT

There were no comments from the public.

III. CHAIR'S REPORT

Mr. Smith attended a kickoff meeting at the Energy & Natural Resources and Minerals Department for a statewide energy efficiency potential study through ARRA funding made available. A more substantial meeting will take place sometime in September. Secondly, the Charter Review Committee is working on Utilities; at the August 30th meeting Article V of the Charter will be addressed.

IV. BOARD MEMBER'S REPORT

Mr. Neal said Board members received a LA Green brochure and invited input as to how the program works.

Mr. Arrowsmith said Los Alamos currently purchases energy on the market and hopes to generate its own power in the future.

V. MANAGER'S REPORT

Mr. Arrowsmith reported the following items to the Utilities Board members and members of the public.

- 1) Mr. Tim Neal was reappointed to the Utilities Board by the County Council at their meeting on August 17, 2010.
- 2) A presentation will be made to the Los Alamos School Board on August 26th for potentially locating the demonstration house on the Middle School property. Mr. Arrowsmith met with the UNM School of Architecture who is interested in the project.
- 3) Ms. Williams-Hill recently put out bids for survey for the underground versus overhead line replacement project.

VI. COUNTY ADMINISTRATOR'S REPORT - None

VII. APPROVAL OF PREVIOUS MEETING MINUTES

Mr. Smith noted one correction on page 4: change Mr. Thurman to Mr. Talley.

Mr. Neal wished to identify Mr. Mike Steinzig's attendance as a new representative for the Environmental Sustainability Board. He visited informally with the Board during its recess following the passage of Incorporated County of Los Alamos Resolution No. 10-17.

Mr. Woodwell moved and Mr. Ortega seconded, that the Utilities Board approve the meeting minutes, as modified. The motion passed 4-0; Mr. Talley was absent.

VIII. NEW BUSINESS

A. Approval of Lease for 2010 San Juan Chama Water (Tim Glasco)

Mr. Glasco began by stating approval of the lease has been an annual occurrence since 1998; the County has leased its annual allocation of water to the Bureau of Reclamation for use in habitat restoration. The cost remains the same as last year and the Bureau will continue to provide 10% "earnest money." Federal law requires the water to be released from Lake Heron by December 31st of the contact year, but waivers have been granted to allow the water to remain until September.

Mr. Ortega moved and Mr. Woodwell seconded, that the Utilities Board approve Contract No. 10-WC-40-393 between the United States of America, Department of Interior, Bureau of Reclamation and the Incorporated County of Los Alamos, New Mexico for lease of 2010 allocation of San Juan/Chama Project Water. The motion passed 4-0; Mr. Talley was absent.

B. Award of Bid for White Rock Water Pressure (James Alarid)

Mr. Alarid said four competitive bids for FY 2011 were examined, both base and alternate bids. Bids came in under \$100K and do not require formal Board or Council approval. A suggested motion was presented in the agenda packet; however the Board agreed to hear and consider the item as informational. The suggested motion read: *I move the Utilities Board to Approve Award of Bid No. 2011-04, Alternate Bid, to Paul Parker Construction for the Water PRV Replacement Grand Canyon & Sherwood Project in the amount of \$43,624.82, a contingency in the amount of \$6,375.18, for a total project budget of \$50,000.00, plus applicable gross receipts tax, and forward to Council for approval.*

No action was taken.

C. Update on the Conservation Plan (Julie Williams-Hill)

Ms. Williams-Hill began by presenting an online survey designed to gather input from residential and commercial customers regarding County conservation goals that are appropriate for these customer classes. Questions were crafted with the help of Environmental Sustainability Board member, Tom Nagawiecki. The

survey has not been made live at this point. She explained that the conservation goals would have more meaning to survey takers if baselines were presented with the various conservation percentage goals. Averaging water consumption data from fiscal years 2004-2006 for the various customer classes was shared with Board members as well as the public baselines that she developed and the subsequent consumption for 2007, 2008, 2009 and 2010. She noted some irregularities in the data and invited the Board and public present to offer suggestions on how best to address these irregularities.

Mr. Arrowsmith suggested a breakdown of irrigation versus non-irrigation water to further examine winter versus summer usage.

Ms. Smith suggested examining climate types, such as wet versus dry years.

Mr. Glasco cautioned examination of precipitation as results can vary depending on the amount of winter snow pack and the presence of monsoon activity.

Ms. Smith suggested contacting the hydrology lab at New Mexico State University for some background information. The lab calculates a water stress map for the state which takes thirstiness and timing of the rainfall into account.

No action was taken.

D. Goals for Energy Independence (John Arrowsmith for Robert Gibson)

Mr. Arrowsmith said Mr. Gibson is seeking input from the Board and potential recommendations to the County Council. Many items are already being addressed through additional hydro, investigation into other opportunities for hydro, and potential expansion the El Vado Hydro Plant.

Mr. Alarid said a recent meeting took place with the DOE about possible grant opportunities at El Vado to either rewind the generator, increase transformer cooling, and upgrading the hydraulics on the transformer to operate a wider flow range.

Mr. Neal expressed concern for setting goals without having a solid plan in motion for energy independence based on survey results and/or other potential studies.

No action was taken.

E. Composting Discussion (Una Smith)

Ms. Smith began by stating that the topic is aimed at achieving efficiencies of scale through implementation of a curbside pickup for yard waste. The idea has been introduced to the Environmental Sustainability Board and discussed in the Environmental Services Department. The concept of including manure in yard waste may help to contribute to the biosolids composting program. It could potentially reduce costs and increase the level of service for manure removal. Another complementary way to improve upon the current means of manure removal might be to implement separate composting on North Mesa adjacent to the Stables and the Community Garden or to possibly consider two alternatives to composting – making pellets or methane through a market study. She went on to talk about current composting methods at the Ecostation as being severely undercapitalized; expensive equipment is lacking in order to improve the quality of the product, there are no covers which present moisture and temperature problems, and woodchip screening is not possible at this time. If a curbside program were implemented, she claims inputs to the composting program could be increased by at least 50%.

Mr. Neal asked for some clarification of the current composting system and the proposed new system in Bayo Canyon.

Mr. Arrowsmith said a design has been completed for composting at Bayo Canyon, but the current permit for composting at the landfill will be valid for another five years. Manure could be moved from the Stables to Bayo Canyon if indeed composting is moved to that location and if manure is included as part of the composting recipe.

Mr. Glasco said new operations in the planning stages would involve high quality equipment Ms. Smith referred to such as a mixer, wind turner, and possibly a trammel screen that would help produce a better quality of compost overall.

Mr. Smith inquired about the demand for compost.

Ms. Smith said Mr. Nagawiecki has reported 1200 tons of accumulation and annual production is approximately 3100 tons; 700 tons go to private individuals – half to Los Alamos County residents and half to residents of other counties, while 700 tons go to commercial users.

No action was taken.

IX. TICKLER FILE

Mr. Arrowsmith mentioned two items: in September, water rates will be discussed for the Ski Hill as well as new effluent rates.

X. STATUS REPORTS

A. Diamond Drive Phase 4 and 5

Mr. Alarid reported that the Diamond Drive Utilities projects are going well; water line work is almost complete. Phase 4 is in the process of testing and should be tied in within the next 10 days. Phase 5, Parker Construction, is working evenings to finish up a 12 inch water line at Trinity and Diamond Drives.

B. Electric Distribution Reliability

Mr. De La Torre discussed the Electric Distribution Reliability Report. Outages for July left 115 customers without service due to bad underground sections on Sioux Street, which is very typical during the rainy seasons. A larger outage on July 22nd was the result of a lightning strike at 42nd Street and Trinity Drive which knocked out Circuit 13.

August outages included an underground failure of a 1400 foot section at East Gate. Crews worked a full day to restore electricity as a LANL service feeder (EA4) was affected that in turn affected three possible source that feed the new underground system at Pajarito Cliffs site, an old underground system at East Gate, and the overhead system in Bayo Canyon.

An outage occurred on Sunday, August 15th that affected the overhead system. Mr. De La Torre provided some background information about what he called an obsolete system. Double dead end copper structures are fit together with jumpers along elevation changes. Feeders 15 & 16 double circuit lines cross a canyon and lightning struck the line which burned through an aluminum splice crimp connector. Feeder 15 & 16 affected TC1 which then knocked out power on Feeders 13 & 14. Multiple fuses and transformers were blown during the storm and crews worked until 2 a.m. to complete repairs. He went on to state that a design bid for overhead line replacement will be brought to the Board for approval in October or November.

C. Active Accounts Receivables Over 90 Days Past Due

There was no discussion regarding the active accounts receivables over 90 days past due.

XI. ADJOURNMENT

The meeting adjourned at 7:12 pm.

Paul Smith, Chair

Date

BOARD OF PUBLIC UTILITIES MEETING

September 15, 2010
DPU Conference Room - 170 Central Park Square
Los Alamos, NM

MEMBERS PRESENT:

Paul Smith, Chair
Tim Neal, Member
Thurman Talley, Member
Glenn Woodwell, Member

OTHERS PRESENT:

Janet Bettinger, Dep. Util. Mgr. - Finance and Admin.
Rafael De La Torre, Dep. Util. Mgr. Elec. Distribution
Sharon Stover, County Council Vice-Chair
Deni Fell, Customer Care Representative
Robert Falco, Member of the Public

Absent:

Chris Ortega, Vice-Chair
John Arrowsmith, Utilities Manager

I. CALL TO ORDER

Mr. Smith called the meeting to order at 5:30 pm.

II. PUBLIC COMMENT

Mr. Falco presented a letter with supporting documentation in the form of a CIP Phase I application to the Board that explores the conversion of waste (horse manure) into energy. He pointed out four key technological factors that have changed in recent years. First, anaerobic digestion has been refined to allow for both high and low-solids-fractions systems, the price of energy is continually increasing, conversion of biogas to electricity in Solid Oxide Fuel Cells technology would increase electrical output, and efficiency rates remain relatively constant for renewable electrical energy sources as currently provided through waterpower. He urged support of new technology being combined with the conversion of waste to gas through a pilot project.

Mr. Smith suggested Mr. Falco make a presentation to the Environmental Sustainability Board.

III. CHAIR'S REPORT

Mr. Smith presented the following items to the Board.

- 1) The electric rate increase hearing has been tabled and rescheduled by request of the County Council from September 14 to October 26, 2010.
- 2) The full Charter Review Committee (CRC) met on August 30 and the utilities subcommittee met on September 13 to discuss Article V of the Charter. The CRC has chosen to focus its review upon the

independence of the Board of Public Utilities relative to the County Council and upon ambiguities in the wording of Article V as to resolution of conflicts that might someday arise between the Board of Public Utilities and the County Council. A subset of the CRC is to have these issues framed for discussion by early December.

- 3) There will be a Board and Commission Luncheon held on September 16, 2010, Mr. Smith will attend.

IV. BOARD MEMBER'S REPORT - None

V. MANAGER'S REPORT

Ms. Bettinger reported the following items to the Board members and members of the public.

- 1) Mr. Arrowsmith is on vacation and Mr. James Alarid, Deputy Utilities Manager – Engineering is available in his absence.
- 2) NEDO representatives will be visiting next week; she and Mr. Rafael De La Torre will be in meetings to discuss details of the experiments.
- 3) On September 1, 2010, a union election was held and passed for the Pipefitters Union; 39 staff members will be part of the bargaining unit. Ms. Bettinger and Mr. Tim Glasco will begin negotiations after meeting with Human Resources and the County Attorney.
- 4) An application will be submitted to the Water Trust Board with regard to the Los Alamos Dam restoration project and the effluent re-use project. Board approval is not required, but members should be made aware that it will be presented to the County Council at their September 28th meeting.
- 5) Mr. De La Torre said Utilities is scheduled to go out for bid on the overhead line replacement for Feeders 15 & 16; advertisement will begin the weekend of September 18th and will likely come back for Board approval in October.

VI. COUNTY ADMINISTRATOR'S REPORT - None

VII. APPROVAL OF PREVIOUS MEETING MINUTES

Due to staffing constraints, the minutes from the August 18, 2010 meeting will be available at the October 20th Utilities Board meeting.

VIII. NEW BUSINESS

A. Pajarito Environmental Education Center (PEEC) Request for Letter of Support CIP Application – Nature Center

The Board reviewed the documentation provided in the agenda packet and agreed it could not provide an endorsement at this time.

No action was taken.

IX. TICKLER FILE

Mr. Smith requested the Board consider a periodic review of the rate assessment policy for each utility.

X. STATUS REPORTS

A. Diamond Drive Phase 4 and 5

Mr. Smith said both projects are satisfactorily on track.

B. Electric Distribution Reliability

Mr. De La Torre briefly mentioned the outages from August; he remains confident that replacement of overhead lines across the canyon will correct the mechanical failures on Feeder 15 & 16 circuit lines.

C. Active Accounts Receivables Over 90 Days Past Due

There was no discussion regarding the active accounts receivables over 90 days past due.

XI. ADJOURNMENT

The meeting adjourned at 6:06 pm.

Paul Smith, Chair

Date

BUSINESS

Board Policy on Unsolicited Proposals

Presenter: Paul Smith

Guidelines for Requests to Place Technology Proposals on Agenda

Background

From time to time, individuals or organizations request to be placed on a Board of Public Utilities meeting agenda to seek endorsement of a utilities-related technology development venture or to seek endorsement of a Capital Improvement Project (CIP) funding proposal. Out of respect for people making such requests, the Board of Public Utilities should have guidelines by which to respond.

Technology Development Presentations

Typically endorsement is sought in the form of research and development funding, venture capital investment, or favorable assessment to be used in other venues to promote funding of the technology. Such requests for Board of Public Utilities agenda time are usually rejected with an explanation that the Department of Public Utilities cannot provide funds to private ventures that do not include supplying a utilities commodity or service that is needed and sought on behalf of utilities rate payers. Requests that claim local economic development potential are referred to the Office of the County Administrator for consideration.

There seems to be no need to change this guideline.

Capital Improvement Project Funding Proposals (Other Than Governmental CIP Proposals That Coordinate with Public Utilities through Interdepartmental Review)

These competing proposals are made by citizens, often through standing advisory boards established by the County Council. Requests for projects usually exceed capital funding available, so proposal makers understandably seek support from as broad a cross section of the community as they can obtain. The question is: what specifically is the requestor hoping to obtain when asking for endorsement, and what could the Board of Public Utilities appropriately and credibly supply in return?

Considerations/Expectations:

- Neither the Board of Public Utilities nor Department of Public Utilities staff can perform in-depth technical or economic assessments and ranking of CIP proposals. Indeed, a major purpose of funding Phase 1 of a CIP proposal is to obtain such assessment.
- While Department of Public Utilities staff welcome questions from their customers, they cannot be expected to provide extensive technical or business consultations for preparation of CIP proposals. In rare cases, where the product of a CIP proposal might physically interfere with provision of utilities, the problem can be identified through staff consultation at an early stage of proposal preparation.
- The Board of Public Utilities can make no promise or representation that commodities or services that may result from successful completion of a proposed CIP will be accepted or purchased by the Department of Public Utilities.
- Capital Improvement Projects are funded by the County Council with tax revenues. The Department of Public Utilities receives no tax revenues; it is funded instead by revenues from rate payers in return for providing, producing, procuring, and distributing utilities commodities and services. The Board of Public Utilities represents citizens in their role as utility rate payers and not citizens in their role as tax payers. It may, in most cases, be inappropriate for the Board of Public Utilities, on behalf of citizens as rate payers, to advocate allocation of tax revenues to Capital Improvement Projects.

Options (Among Many) Regarding CIP Proposals

1. (Pragmatic) Routinely deny requests to place CIP proposals on the Board's meeting agenda with the explanation that very seldom, if ever, is there any substantial action the Board can take with regard to endorsement. Point out to requestors that the Board welcomes, by way of information, a five minute summary of CIP proposals at Board meetings during public comment time.
2. (Expedient) Routinely accept requests to place CIP proposals on the Board's meeting agenda with the understanding with the requestor in advance that very seldom, if ever, is there any substantial action the Board can take with regard to endorsement.

BUSINESS

**Rate and Reserve Policy
For discussion**

**Presenter: John Arrowsmith for Janet
Bettinger**

Los Alamos County
Department of Public Utilities
Rate Setting Policy

Los Alamos County Charter (Article V, Section 504) states *“the rates to be paid by consumers for electricity, gas, water and sewer service shall be proposed by the Board of Public Utilities and shall become effective upon adoption by the County Council. The Board of Public Utilities shall hold a public hearing before a change in rates or charges is put up for adoption. Two weeks before the hearing[,] a notice of the hearing and the proposed change must be published. The Department of Utilities shall be operated on a compensatory basis. The rates and charges shall be just, reasonable, and comparable to those in neighboring communities and shall be uniform for all consumers of the same class. Different rate schedules may be established for different classes of consumers. Charges for other services provided by the Department of Public Utilities shall be set by the Board of Public Utilities.”* The Department of Public Utilities (DPU) user rates are set by ordinance and are in Chapter 40 of the County Code of Ordinances. The fees are adopted by the DPU Board and are shown in the Fee Schedule.

DPU will review rates for each utility (Electric, Gas, Water and Sewer) on an annual basis as part of the budget preparation process or as needed to cover extreme inflation or extreme fluctuations in commodity costs and in a manner to ensure rates will be fairly allocated to the appropriate customer class. Rates will be set as low as possible, taking into consideration:

- adequate levels necessary to cover the cost of operating, maintaining and replacing the systems
- renewals and replacements
- reserves for payment of principal and interest on indebtedness incurred for maintenance or improvement of each utility
- five percent profit transfer to the General Fund from the electric and gas utilities

The rate review shall include analysis of both fixed and variable costs of operating, maintaining, improving and expanding the utility systems. To determine if rates are adequate, the following analysis will be reviewed on both a historical and projected basis:

- Usage by rate class
- Revenue by rate class
- Operating Expenses and Debt Service
- Capital Expenditures (should include not only planned expenditures for the fiscal year, but also an annuity for future capital projects needed to maintain and/or expand the utility systems)
- Rate comparison to neighboring communities
- Cash Balances and Reserves¹

¹Cash Balances are evaluated to ensure that adequate working capital is available. The Rate Stabilization Fund is evaluated to ensure sufficient reserves to absorb normal fluctuations in commodity prices. The Capital Replacement Reserve fund is evaluated to ensure DPU's ability to finance capital replacements required by normal depreciation of each utility plant and equipment.

Charter (Article V. Section 509) establishes the priority of budgeted expenditures for Utilities and should be considered in the determining the adequacy of existing user rates. *“In order that the Department of Public Utilities can plan and utilize its proceeds for the maintenance, improvement and extension of the utilities system before any part of such proceeds is diverted to general County purposes, all funds derived from the operation of the utilities shall be managed and expended in accordance with the following policies. From the proceeds of the operation of the Department:*

- 1. There shall first be set aside the funds required for current operations.*
- 2. There shall next be set aside the funds required to redeem and pay interest on any bond issue for the utility which shall become due and payable during the next fiscal year.*
- 3. There shall next be provided an adequate reserve to finance replacements required by normal depreciation of the utility plant or equipment as provided in the Schedule of Funds. These reserves may not be used by the County for financing County operations.*
- 4. There shall be paid to the General Fund those amounts set forth in the budget as payments to be made to the County in lieu of franchise fees and taxes that would be normally assessed against privately owned gas and electric utilities.*
- 5. There shall next be a provision for additions and improvements foreseen as necessary to meet future requirements for the utility systems as provided in the Schedule of Funds.*
- 6. All remaining operating profits shall be transferred to the County General Fund.”*

BUSINESS

Bid Approval for Underground Cable

Presenter: Rafael De La Torre



BOARD OF PUBLIC UTILITIES

Agenda Documentation

Presenter Rafael De La Torre Date 20 October 2010

SUBJECT

Award of IFB No. 2011-10 to WESCO Inc. for the purchasing of 30,000 feet of 15KV, 500 mcm Aluminum primary cable.

BACKGROUND

The primary cable will be utilized to replace the underground portions of the Feeder 15-16 Replacement Project commencing at the Townsite Substation and ending at the base of Pueblo Canyon.

ATTACHMENT

Bid Evaluation Form

STAFF IMPACT

Utility engineering staff will provide design; utility operations staff will install the primary cable.

FISCAL IMPACT

This is a 2010-2011 approved budget item; Feeder 15-16 Replacement Project Phase 1 in the amount of \$1,250,000.

STAFF RECOMMENDATION

The purpose of this agenda item is to request Utilities Board approval to award IFB No. 2011-10, to WESCO Inc. for the purchasing of 30,000 feet of 15KV, 500mcm primary underground cable.

SUGGESTED MOTION

I Move the Utilities Board to Approve Award of IFB No. 2011-10, to WESCO, Inc. in the amount of \$121,080 plus GRT for 30,000 feet of 15KV, 500 mcm primary underground cable.

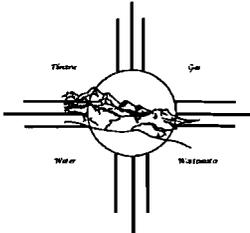
BUSINESS

Approval of Septic Hauler Bid

Presenter: Tim Glasco

AGENDA DOCUMENTATION

BOARD OF PUBLIC UTILITIES



Date: October 20, 2010

Presenter: Tim Glasco

SUBJECT

Approval of Purchase of a Septic Tank Truck

BACKGROUND

In 2009 a consultant was retained to study the White Rock Wastewater Treatment plant with the goal of recommending the most cost effective way of maintaining the plant in operation for the next ten years until it could be replaced. One of the more cost effective recommendations was to cease sludge processing at White Rock and transfer the material over to the new Los Alamos treatment plant. Both digesters at White Rock are non-functional and refurbishment to put them back into proper operation was estimated at \$300K each for a total of \$600K. Also, the boiler necessary to heat the digesters must be replaced at a cost of \$100K. Other slightly less costly options were investigated, but all were in the multi-hundred thousand dollar range or impractical or both. Alternatively an option was presented to haul the sludge from White Rock to Los Alamos using a septic tank truck. It was estimated that two to three loads per week would be sufficient to transport the sludge. As a trial, this last summer a local septic tank service was hired to transport sludge to see the effect on the Los Alamos plant from this additional treatment load. The test was successful in that the plant suffered no ill effects from the additional loading. Cost of this service ran approximately \$4,500 per month. In addition to the sludge hauling, the Utilities department hauls wastewater from the ice skating rink and from the EcoStation, presently using the Vactor sewer cleaning truck. The Vactor is ill-suited for this work while the septic tank truck is designed for exactly that function. The decision was therefore made to purchase a septic tank vehicle. This will facilitate existing work and avoid substantial cost in rehabilitation of the White Rock sludge treatment system.

ATTACHMENTS

State of New Mexico General Services Department Price Agreement 70-000-00-04061AI
Clark Truck Equipment Company Quotation

FISCAL IMPACT

\$125,531.37 budgeted in FY2011

STAFF IMPACT

No staff impact.

STAFF RECOMMENDATION

Staff recommends purchase of the septic tank truck.

SUGGESTED MOTION

I move the Utilities Board approve purchase of a septic tank vacuum truck in the amount of \$126,531.37 from Clark Truck Equipment, Inc. pursuant to State of New Mexico General Services Department Price Agreement Number 70-000-00-04061AI.



STATE OF NEW MEXICO
GENERAL SERVICES DEPARTMENT
PURCHASING DIVISION

AWARDED VENDOR
(0000045857)
CLARK TRUCK EQUIPMENT CO
PO BOX 3483
501 INDUSTRIAL NE
ALBUQUERQUE, NM 87107
Telephone.: 505-880-8222

**PRICE AGREEMENT
AMENDMENT**

PRICE AGREEMENT NUMBER: 70-000-00-04061AI

PRICE AGREEMENT AMENDMENT NO.: TWO

TERM: JUNE 13, 2007 - JUNE 12, 2009

SHIP TO:
All State of New Mexico Agencies, Commissions, Institutions,
Political Sub-divisions and Local Public Bodies allowed by law.

INVOICE:

AS REQUESTED

**CONTRACT ORDERS WILL INDICATE AGENCY
CONTACT PERSON**

Procurement Specialist: INDIA GARCIA *IG*

Telephone No.: 505-827-0483

COMMODITY: HIGHWAY HEAVY EQUIPMENT & TRUCK REPAIRS (PARTS & LABOR)

THIS PRICE AGREEMENT AMENDMENT IS TO BE ATTACHED TO THE RESPECTIVE PRICE AGREEMENT AND BECOME A PART THEREOF.

IN ACCORDANCE WITH CONTRACT PROVISIONS, AND BY MUTUAL AGREEMENT OF ALL PARTIES, THIS PRICE AGREEMENT IS EXTENDED FROM JUNE 13, 2009 TO JUNE 12, 2010 AT THE SAME PRICE, TERMS AND CONDITIONS.

EXCEPT AS MODIFIED BY THIS AMENDMENT, THE PROVISIONS OF THE PRICE AGREEMENT SHALL REMAIN IN FULL FORCE AND EFFECT.

ACCEPTED FOR THE STATE OF NEW MEXICO

[Signature]

NEW MEXICO STATE PURCHASING AGENT

PURCHASING DIVISION, 1100 ST. FRANCIS DRIVE 87505/ PO BOX 6850, SANTA FE, NM 87502-6850 (505) 827-0472

RM *[Signature]*

*Next Page For
EXTENSION ON
CONTRACT*

DATE: 06/12/09



STATE OF NEW MEXICO
GENERAL SERVICES DEPARTMENT
PURCHASING DIVISION

Awarded Vendor 42 Vendors Telephone No. _____
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**Price Agreement
Amendment**

Price Agreement Number: 70-000-00-04061

Price Agreement Amendment No.: FOUR

Term: June 13, 2007- June 12, 2010

Ship To: All State of New Mexico Agencies, Commissions, Institutions, Political Sub-Divisions and Local Public Bodies allowed by Law.
Invoice: <p style="text-align: center;">As requested</p>

Procurement Specialist: ERIC SANCHEZ *ES*

Telephone No.: (505) 827-0554

Commodity: Highway Heavy Equipment & Truck Repairs (Parts & Labor)

This Price Agreement Amendment is to be attached to the respective Price Agreement and become a part thereof.

In accordance with Contract provisions, and by mutual agreement of all parties, this Price Agreement is extended from June 13, 2010 to June 12, 2011 at the same price, terms and conditions.

Except as modified by this amendment, the provisions of the Price Agreement shall remain in full force and effect.

Accepted for the State of New Mexico

[Signature]

 New Mexico State Purchasing Agent

Date: 6-8-10

Purchasing Division, 1100 St. Francis Drive 87505, PO Box 6850, Santa Fe, NM 87502-6850 (505) 827-0472

ES

STATE OF NEW MEXICO
 GENERAL SERVICES DEPARTMENT
 PURCHASING DIVISION
 PRICE AGREEMENT #: 70-000-00-04061

ITEM * * QTY *	APPROX* * UNIT *	ARTICLE AND DESCRIPTION	* * UNIT PRICE
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SCOPE:

TO ESTABLISH A PRICE AGREEMENT FOR PERFORMING PREVENTIVE MAINTENANCE, MECHANICAL REPAIRS, PARTS PROCUREMENT, COMPONENT/ATTACHMENT REPAIRS, MATERIALS AND/OR LABOR OVER \$500.00 ON HIGHWAY HEAVY EQUIPMENT AND TRUCKS OVER 19,000 POUNDS GVWR. (NO AUTOMOTIVE OR LIGHT TRUCKS).

THE TERM OF THIS AGREEMENT SHALL BE FOR ONE (1) YEAR FROM DATE OF AWARD WITH THE OPTION TO EXTEND FOR A PERIOD (S) OF THREE (3) ADDITIONAL YEARS, ON A YEAR-BY-YEAR BASIS, BY MUTUAL AGREEMENT OF ALL PARTIES AND APPROVAL OF THE NEW MEXICO STATE PURCHASING DIRECTOR AT THE SAME PRICE, TERMS AND CONDITIONS. THIS AGREEMENT SHALL NOT EXCEED FOUR (4) YEARS.

TRUCKS AND HIGHWAY HEAVY EQUIPMENT SHALL BE DEFINED AS TRUCKS OVER 19,000 LBS GVWR, TRAILERS, OIL DISTRIBUTORS, MOTOR GRADERS, LOADERS, BACKHOES, EXCAVATORS, CRAWLER TRACTORS, AGRICULTURAL TRACTORS, MOWERS, HIGHWAY SWEEPERS, MILLING MACHINES, SKID STEER LOADERS, ASPHALT PAVERS, SCREENING PLANTS, ROLLERS (STEEL & PNEUMATIC), FORKLIFTS, AUGERS, JET RODDERS, SNOW BLOWER, DRILL RIGS AND OTHER HIGHWAY HEAVY EQUIPMENT NOT LISTED.

COMPONENTS AND ATTACHMENTS SHALL BE DEFINED AS VEHICLE MOUNTED ATTENUATORS, TRAFFIC ALERTING DEVICES, GASOLINE AND DIESEL ENGINES, TRANSMISSIONS (MANUAL/AUTOMATIC), CLUTCHES, AXLES/DIFFERENTIALS, TIRE REPAIRS/FOAM FILLING, SHEET METAL/FIBERGLASS/PAINT BODY WORK, WHEEL/FRAME ALIGNMENTS, WINDSHIELDS, DUMP BODIES, SALT SPREADERS, SNOW PLOWS, LIQUID DEICERS, WATER TANKS, HYDRAULIC PUMPS, WATER PUMPS, VALVES, CONTROLS, CYLINDERS, AIR COMPRESSORS, WELDERS, WET KITS AND AERIAL DEVICES.

VENDORS SHALL INDICATE THE BRANDS/TYPES OF EQUIPMENT/TRUCKS SERVICED AND/OR SERVICES THEY PROVIDE IN THE ATTACHED LIST ALONG WITH STANDARD COMMERCIAL SHOP/HOURLY RATE, DISCOUNTED COMMERCIAL SHOP/HOURLY RATE, AND PARTS DISCOUNT PERCENTAGE OF LIST OFFERED. THE PARTS DISCOUNT PERCENTAGE OF LIST OFFERED SHALL BE FROM HIGHWAY HEAVY EQUIPMENT AND TRUCK PARTS PRICES LISTED IN THE MANUFACTURER'S OR DEALERS PUBLISHED PRICE SCHEDULE. "NO ADD-ON PRICES TO LIST PRICE WILL BE ALLOWED". PARTS SHALL BE BILLED AT THE DISCOUNTED PERCENTAGE PRICE OFFERED. COST FOR PARTS, SUPPLIES AND MATERIALS SHALL BE ITEMIZED AND PRICED SEPARATELY ON EACH INVOICE. THE NMDOT AGREES TO COMPENSATE THE AWARDED VENDOR ACTUAL FREIGHT AND HANDLING CHARGES INCURRED IN THE PROCUREMENT OF "SPECIAL ORDER PARTS", WHICH ARE NOT NORMALLY STOCKED ITEMS, PROVIDED THAT AUTHORIZATION IS GRANTED BY THE NMDOT AT TIME OF ORDER.

SUCCESSFUL VENDOR(S) UPON REQUEST SHALL FURNISH THE USERS WITH A COPY OF THE PRICE SCHEDULE(S) AND/OR LABOR FLAT RATE SCHEDULE AT NO ADDITIONAL COST.

THE SUCCESSFUL VENDOR(S) SHALL ENSURE THAT ALL WORK BEING PERFORMED BE PROFESSIONALLY DIAGNOSED PRIOR TO ANY WORK PERFORMED. REPAIRS AND/OR ADJUSTMENTS SHALL BE PERFORMED ONLY BY FACTORY TRAINED AND/OR CERTIFIED TECHNICIANS/WELDERS.

ALL REPAIRS SHALL BE COMPLETED WITHIN FIFTEEN (15) WORKING DAYS AFTER RECEIPT OF UNIT(S). THIS PERIOD MAY BE EXTENDED AT THE USER'S OPTION AND SUCH EXTENSION SHALL BE DOCUMENTED IN WRITING. IN THE EVENT OF FAILURE TO PERFORM REPAIRS WITHIN FIFTEEN (15) WORKING DAYS AND FAILURE TO RECEIVE APPROVAL FOR TIME EXTENSION, THE BIDDER MAY BE PENALIZED FOR LATE REPAIR CHARGES OF \$25.00 PER UNIT PER DAY. ALL REPAIRS SHALL BE PERFORMED AT THE BIDDER'S PLACE OF BUSINESS OR OTHER FACILITY OF HIS/HER CHOICE. DELIVERY OF UNIT(S) FOR REPAIR AND ALL COSTS ASSOCIATED THEREWITH SHALL BE THE USER'S RESPONSIBILITY.

8-6-10

LOS ALAMOS COUNTY
ATTN: NORM ROMERO

FURNISH AND INSTALL THE FOLLOWING ON YOUR CAB CHASSIS WITH AUTOMATIC TRANSMISSION. CHASSIS TO HAVE ALL PTO CAPABILITY, PROGRAMMING AND IDLE UP CAPABILITY. CHASSIS MANUFACTURE TO BE RESPONSIBLE FOR ANY PROGRAMMING AFTER TANK INSTALL. CHASSIS TO HAVE A MINIMUM OF 12K FRONT AND 21K REAR AXLE AND 120" CA.

VACUUM TANK SPECIFICATIONS:

CAPACITY 2,000 U.S. gallons

CONSTRUCTION Straight round barrel with integral frame 62" dia. X 142" seam to seam

SHELL 1/4" A-36 steel

BAFFLES One (1) full splash with sanitary flanges, welded both sides.

WORKING PRESSURE (15) PSIG, Full vacuum.

FRAME Full length 1/4" steel boxed style frame welded to 1/4" pad on tank shell.

MANHOLES Two (2) 20" with steel covers in waste tank. (6) wing nut closures, gasket in grooved cover. One mounted at top of tank toward front. One mounted in bottom of rear head for cleanout.

CAPACITY INDICATORS Three (3) 5" glass sight eyes on rear street side.

WASTE TANK PIPING 4" flanged outlet straight out rear in cleanout manhole lid with brass lever valve, camlock adapter and cap. 3" flanged suction on driver side rear with brass lever valve, camlock adapter and cap

FRESH WATER PIPING 2" npt in tank bottom *no fresh water tank*

PRIMARY SHUTOFF 12" steel with 2" fitting. Quick access cover for easy maintenance. Stainless steel cage & float ball with rubber seat. External hose to secondary shutoff.

SECONDARY SHUTOFF Included with pump

PRESSURE RELIEF 1 1/4" pressure relief valve installed on coupling on top of tank, 1 1/2" vacuum relief on suction piping

PUMPS 165 CFM HXL4V Masport Includes air cooled pump, bracket, gearbox, coupler, gauge, pressure & vacuum relief valves, secondary shutoff & prefilter

P.T.O. Hot shift for automatic transmission

LIGHTS & WIRING Truck Lite LED system & three (3) 4" sealed beam work lights. conduit installed for wiring under fenders & up ends of tank.

LADDER Ladder rungs mounted on tank on streetside.

FENDERS 12 ga. steel full length of tank each side with integral hose storage bins. Loops installed for bungee cord securement.

HOSE STORAGE (2) hose hooks mounted on rear head.

MOUNTING (4) interlocking channel mounting brackets w/neoprene sill pads and elastomer loaded mounting bolts to allow for independent movement of tank on truck frame (DOT engineered and approved design) Lifting eyes on front and rear head at top.

CABINET (1) 18" x 18" x 30" steel tool box with drop down door mounted on street side

BUMPER Standard ICC type

PAINT Sandblasted, epoxy primed and top coated with white polyurethane enamel.

WARRANTY Five (5) years on manufactured components.

TOTAL INSTALLED PRICE \$ 36,020.00 TAX EXEMPT

OPTIONS:

Sherwin Williams Epoxy coating applied to sandblasted interior. **ADD \$ 3750.00**

Aluminum tank in lieu of steel tank above **ADD \$ 7500.00** *yes*

Electric over hydraulic hoist for use during clean out mode **ADD \$ 6750.00**

THANK YOU FOR THE OPPORTUNITY TO QUOTE

KEVIN STACY
SALES
CLARK TRUCK EQUIPMENT
800-678-2741

Due to federal regulations, Clark Truck Equipment cannot remove or modify any of the exhaust system for install of equipment.

TANK \$ 43,520.00
TRUCK \$ 83,011.37

TOTAL \$ 126,531.37

Heavy Truck #2

**Truck, cab & chassis, 37,000 pounds GVRW, Automatic transmission (vocational),
New current production model**

Make offered..... INTERNATIONAL

Model offered..... 7000 SFA SERIES 4X2

Base price per unit.....\$ 77,837.11

For trucks built with 2010 engine emissions standards, add \$ 6,000.00.

Proposed as options:

- A. Ten-speed manual transmission (deduct) 3,230.40
- B. Factory installed, front drive disconnect system, fourteen thousand (14,000) pounds capacity axle and suspension. Ratio to match rear axle "Meritor" (mx-14-120) or prior approved equal. Two (2) speed air shift transfer case controlled from cab "Meritor" (MTC 4210) or prior approved equal add 22,240.00
- C. Additional parts book (cdrom if available) add 159.45
- D. Additional technical manual (cdrom if available) add 318.90
- E. Twenty eight thousand (28,000) pounds GVWR rating with a minimum of nine thousand (9,000) pounds capacity front axle and nineteen thousand (19,000) pounds capacity rear axle. (deduct) 780.00
- F. One hundred twenty (120) inches cab to axle add 212.60
- G. Front frame extension and engine crank pto provision (delete-deduct) 140.40
- H. Straight truck trailer air brakes system (delete-deduct) 145.60
- I. Cold weather starting aid (delete-deduct) N/A

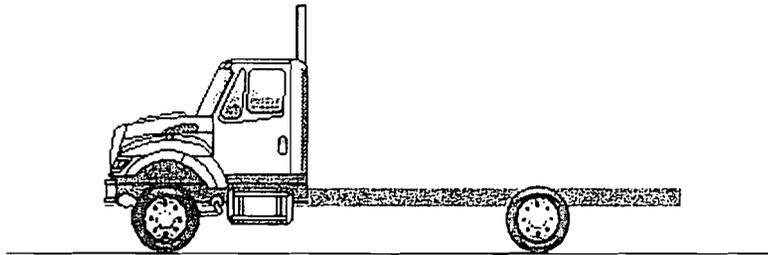
- J. Engine shut-down system (delete-deduct) N/C
- K. Dual heated west coast type power adjust mirrors add 27.66
- L. Factory installed auxiliary snow plow light switch and wiring harness add 74.41
- M. Frontal air intake for snow removal operations in specs deduct 187.20
- N. High profile sliding fifth wheel, catwalk, pogo stick, tractor air line package in lieu of straight truck trailer air package and seven way electrical cord add 1,647.65
- O. Front bumper (delete-deduct) 15.00
- P. Fender mirrors (delete-deduct) 80.00
- Q. Six (6) factory installed modular electrical auxiliary switches installed in dash with NMDOT nomenclature add 357.17
- R. Crew cab (four doors) add 6,590.60
- S. Extended cab add 4,491.75
- T. Six inch spotlight add 446.46
- U. Factory or dealer installed outside thermometer with dual digital in-cab gauge display that reads outside ambient temperature and road temperature "road watch" (rw-1) add 956.70
- V. Stainless steel full fenders add 2,009.07
- W. Eighteen x twenty four x thirty six inch toolbox with "t" twist handle, bolt-on location to be determined by user add 446.46
- X. Light pre-trip inspection (cycle all exterior lights) add 21.26
- Y. Gps unit (heavy duty h3400) advanced communications and electronics (505)-244-3321 add 650.00
- Z. Engine diagnostic equipment (including all applicable accessories to connect to engine/transmission) add 1,807.10

***** END OF OPTIONS *****

Prepared For:
LOS ALAMOS COUNTY
PURCHASING AGENT
901 TRINITY DRIVE
LOS ALAMOS, NM 87544-
(505)662 - 8115
Reference ID: Septic Tank

Presented By:
ROBERTS TRUCK & BUS CENTER
Brian Foster
1623 ASPEN AVE NW
ALBUQUERQUE NM 87104 -
(505)243-7883

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.



Model Profile
2011 7500 SFA 4X2 (SA537)

APPLICATION:	Construction Dump
MISSION:	Requested GVWR: 33000. Calc. GVWR: 33000 Calc. Start / Grade Ability: 30.90% / 3.76% @ 55 MPH Calc. Geared Speed: 80.0 MPH
FUEL ECONOMY:	8.99 MPG @ 55 MPH
DIMENSION:	Wheelbase: 195.00, CA: 120.00, Axle to Frame: 75.00
ENGINE, DIESEL:	{MaxxForce 10} EPA 10, 310 HP @ 2000 RPM, 1050 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed
TRANSMISSION, AUTOMATIC:	{Allison 3000_RDS_P} 4th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-12-143A} Wide Track, I-Beam Type, 12,000-lb Capacity
AXLE, REAR, SINGLE:	{Meritor MS-21-14X-4DCR} Single Reduction, 21,000-lb Capacity, R Wheel Ends, Driver Controlled Locking Differential Gear Ratio: 5.13
CAB:	Conventional
TIRE, FRONT:	(2) 11R22.5 HSR2 (CONTINENTAL) 498 rev/mile, load range G, 14 ply
TIRE, REAR:	(4) 11R22.5 HDR1 (CONTINENTAL) 495 rev/mile, load range G, 14 ply
SUSPENSION, RR, SPRING, SINGLE:	Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring
PAINT:	Cab schematic 100GM Location 1: 9219, Winter White (Std) Chassis schematic N/A

<u>Code</u>	<u>Description</u>
SA53700	Base Chassis, Model 7500 SFA 4X2 with 195.00 Wheelbase, 120.00 CA, and 75.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1CAG	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.250" x 3.610" x 0.375" (260.4mm x 91.7mm x 9.5mm); 456.0" (11582mm) Maximum OAL
1LLA	BUMPER, FRONT Steel, Swept Back <u>Includes</u> : BUMPER, FRONT Powder Coated Gray (Argent) Color
1WEV	WHEELBASE RANGE 146" (370cm) Through and Including 195" (495cm)
1WTU	FRAME ADDITION, FRONT 1" Integral; Increases BBC, BA and OAL Vehicle Dimensions By 1"
2ARW	AXLE, FRONT NON-DRIVING (Meritor MFS-12-143A) Wide Track, I-Beam Type, 12,000-lb Capacity <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
3ADC	SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 12,000-lb Capacity; With Shock Absorbers <u>Includes</u> : SPRING PINS Rubber Bushings, Maintenance-Free <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications <u>Includes</u> : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : DUST SHIELDS, FRONT BRAKE : DUST SHIELDS, REAR BRAKE : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic : SLACK ADJUSTERS, REAR Automatic : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4 <u>Notes</u> : Rear Axle is Limited to 23,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle/Suspension Ordered.
4732	DRAIN VALVE (Berg) Manual; With Pull Chain, for Air Tank <u>Includes</u> : DRAIN VALVE Mounted in Wet Tank
4AZA	AIR BRAKE ABS (Bendix AntiLock Brake System) Full Vehicle Wheel Control System (4-Channel)
4EBS	AIR DRYER (Bendix AD-9) With Heater
4ESX	BRAKE CHAMBERS, FRONT AXLE (Haldex) 20 SqIn
4EVL	BRAKE CHAMBERS, REAR AXLE (Haldex GC3030LHDHO) 30/30 Spring Brake <u>Includes</u> : BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES: All 4x2, 4x4; WITH TRACTOR BRAKES: All 4x2, 4x4; 6x4 & 6x6 with Rear Tandem Axles Less Than 46,000-lb. or GVWR Up To 54,000-lb.
4JCJ	BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. Long Stroke Brake Chambers <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4NDB	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq. In. Long Stroke Brake Chamber and Spring Actuated Parking Brake <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
4SBD	AIR COMPRESSOR (Bendix Tu-Flo 750) 16.5 CFM Capacity
5708	STEERING COLUMN Tilting
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black
5PSA	STEERING GEAR (Sheppard M-100) Power

<u>Code</u>	<u>Description</u>
6DAX	DRIVESHAFT {Dana Spicer} SPL170XL in lieu of 1710 Series
7BDA	EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Right Side Back of Cab, Includes Horizontal Tail Pipe <u>Includes</u> : EXHAUST HEIGHT 10' Exhaust Height - Based on Empty Chassis with Standard Components (+ or - 1" Height) : NOTE: The Horizontal Tailpipe Includes a Temperature Control Device
7SCY	ENGINE COMPRESSION BRAKE for MaxxForce I6 Engines; Electronically Activated
7WZY	SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, ON/OFF Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in ON Position
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment <u>Includes</u> : BATTERY BOX Steel with Fiberglass Cover : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : FUSES, ELECTRICAL SAE Blade-Type : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels : HORN, ELECTRIC Single : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : RUNNING LIGHT (2) Daytime, Included With Headlights : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered
8518	CIGAR LIGHTER Includes Ash Cup
8718	POWER SOURCE Cigar Type Receptacle without Plug and Cord
8GDR	ALTERNATOR {Delco Remy 22-SI} Brush Type, 12 Volt 145 Amp. Capacity, Pad Mounted
8HAE	BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/ Accessory Power/Ground and Sealed Connector for Stop/Turn
8MEZ	BATTERY SYSTEM {International} Maintenance-Free, (2) 12-Volt 1850CCA Total
8RGA	2-WAY RADIO Wiring Effects; Wiring With 20 Amp Fuse Protection, Includes Ignition Wire With 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab
8RJU	RADIO {International} AM/FM Stereo With CD Player, Weatherband, Clock, Auxiliary Input, Includes Multiple Speakers <u>Includes</u> : SPEAKERS IN CAB (2) Coaxial with Deluxe Interior : SPEAKERS IN CAB (4) Coaxial with Premium Interior
8WBW	JUMP START STUD Remote Mounted <u>Includes</u> : JUMP START STUD Mounted to Battery Box
8WCL	HORN, AIR Black, Single Trumpet, Air Solenoid Operated
8WDG	BACK-UP ALARM {Preco 1059} Electronic; Solid State, Dual Function, 112 dBA
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time
8WJV	BATTERY DISCONNECT SWITCH {Joseph Pollak} for Cab Power Disconnect Switch; Lever Operated, Disconnects Power to PDC, Does Not Disconnect Charging Circuits, Cab Mounted
8WML	HEADLIGHTS Long Life Halogen; for Two Light System
8WPP	ENGINE SHUTDOWN Automatic; With 30 Second Delay, With International Engines
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on

<u>Code</u>	<u>Description</u>
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection
8WWJ	INDICATOR, LOW COOLANT LEVEL With Audible Alarm
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, With Ignition "OFF" and any Door Opened
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses
9585	FENDER EXTENSIONS Rubber
9HBM	GRILLE Stationary, Chrome
9WAC	BUG SCREEN Front End; Mounted Behind Grille
9WAD	BUG DEFLECTOR Smoked Colored Plastic; Mounted on Hood
9WBC	FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 Emissions
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 <u>Includes</u> : PAINT SCHEMATIC ID LETTERS "GM"
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10WHW	PROMOTIONAL PACKAGE Silver Package for use with Air Brakes
11001	CLUTCH Omit Item (Clutch & Control)
12926	RADIATOR HOSES Silicone; Molded
12959	BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt <u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door
12NUX	ENGINE, DIESEL {MaxxForce 10} EPA 10, 310 HP @ 2000 RPM, 1050 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed <u>Includes</u> : AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated : COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel : ENGINE OIL DRAIN PLUG Magnetic : ENGINE SHUTDOWN Electric, Key Operated : FUEL FILTER Included with Fuel/Water Separator : FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted : GOVERNOR Electronic : OIL FILTER, ENGINE Spin-On Type : WET TYPE CYLINDER SLEEVES
12THZ	FAN DRIVE {Horton Drivemaster Polar Extreme} Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed <u>Includes</u> : FAN Nylon
12UBG	RADIATOR Aluminum, Front to Back Cross Flow, Series System; 1588 SqIn Core and 885 SqIn Charge Air Cooler and 470 SqIn Low Temperature Radiator Down Flow, Includes Transmission Oil Cooler <u>Includes</u> : ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxForce Engines : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber
12UXE	FEDERAL EMISSIONS for 2010; MaxxForce 9 & 10 Engines
12VBB	AIR CLEANER Dual Element <u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel
12VYP	ENGINE CONTROL, REMOTE MOUNTED - No Provision Furnished for Remote Mounted Engine Control
12WBR	FAN OVERRIDE Manual; With Electric Switch on Instrument Panel, (Fan On With Switch On)
12WZE	EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Regulations

Code	Description
13AMB	TRANSMISSION, AUTOMATIC {Allison 3000_RDS_P} 4th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max. <u>Includes</u> : OIL FILTER, TRANSMISSION Mounted on Transmission : TRANSMISSION OIL PAN Magnet in Oil Pan
13WBL	TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission
13WDZ	SHIFT CONTROL PARAMETERS Allison S-1 Performance Programming in Primary and Allison Fixed Programming in Secondary
13WGH	TRANSMISSION DIPSTICK Relocated to Right Side of Transmission
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction
14ANY	AXLE, REAR, SINGLE {Meritor MS-21-14X-4DCR} Single Reduction, 21,000-lb Capacity, R Wheel Ends, Driver Controlled Locking Differential . Gear Ratio: 5.13 <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
14VAH	SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
14WAP	SHOCK ABSORBERS, REAR (2)
14WLB	AXLE, REAR, LUBE {EmGard 75W-90} Synthetic Oil; 30 thru 39.99 Pints
15LKG	FUEL/WATER SEPARATOR With Thermostatic Fuel Temperature Controlled Electric Heater, and Filter Restriction/Change Indicator, Includes Standard Equipment Water-in-Fuel Sensor
15SET	FUEL TANK Top Draw; D Style, Non Polished Aluminum, 100 U.S. Gal., 378.5 L Capacity, 23.0" Tank Depth, Mounted Left Side Under Cab
16030	CAB Conventional <u>Includes</u> : ARM REST (2) Molded Plastic; One Each Door : CLEARANCE/MARKER LIGHTS (5) Flush Mounted : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted : GLASS, ALL WINDOWS Tinted : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color : STEP (4) Two Steps Per Door
16975	HEATER HOSES Silicone
16GHU	GRAB HANDLE, CAB INTERIOR (2) Safety Yellow
16HBA	GAUGE CLUSTER English With English Electronic Speedometer <u>Includes</u> : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)
16HBZ	GAUGE, TEMPERATURE, AMBIENT Includes Compass Readout and Wiring and Sensor With Display Unit Mounted in Cluster <u>Notes</u> : Feature included with CAB INTERIOR TRIM, Premium
16HGH	GAUGE, OIL TEMP, ALLISON TRAN
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16JJD	SEAT, DRIVER {National 2000 195} Air Suspension, High Back With Integral Headrest, Cloth, Isolator, 3 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust, Cushion and Back Bolsters

<u>Code</u>	<u>Description</u>
16PPD	<u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type SEAT, PASSENGER {National 2000 195} Air-Suspension, High Back With Integral Headrest, Cloth, Isolator, 3 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Back Angle Adjustment, Cushion and Back Bolsters
16SDE	<u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type MIRROR, CONVEX, LOOK DOWN {Lang Mekra} Right Side; 6" x 10 1/4"
16SDT	MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostat Controlled, Power Both Sides Flat Glass Only, Clearance Lights LED.
16SDZ	MIRROR, CONVEX, HOOD MOUNTED {Lang Mekra} Right and Left Side; 7.44" Sq., Bright
16SEE	GRAB HANDLE Chrome; Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar
16VCC	SEAT BELT All Orange; 1 to 3
16WBY	ARM REST, RIGHT, DRIVER SEAT
16WBZ	ARM REST, LEFT, PASSENGER SEAT
16WCT	AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster <u>Includes</u> : CLAMPS, HEATER HOSE Mubea Constant Tension Clamps : HEATER HOSES Premium : REFRIGERANT Hydrofluorocarbon HFC-134A
16WJS	INSTRUMENT PANEL Center Section, Flat Panel
16WKY	FRESH AIR FILTER for HVAC
16WLE	STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
16WRX	CAB INTERIOR TRIM Deluxe <u>Includes</u> : "A" PILLAR COVER Molded Plastic : CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering : CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket : DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors : FLOOR COVERING Rubber, Black : HEADLINER Soft Padded Cloth : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section : STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door : SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console
16WSK	CAB REAR SUSPENSION Air Bag Type
16XWD	SUNSHADE, EXTERIOR Aerodynamic, Painted Roof Color; Includes Integral Clearance/Marker Lights
16XWJ	WINDSHIELD WIPER BLADES Snow Type
26DPY	WHEEL, SPARE, DISC 22.5" Painted Steel, 5-Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc
27DRN	WHEELS, FRONT DISC; 22.5" Painted Steel, 5 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs <u>Includes</u> : PAINT IDENTITY, FRONT WHEELS White : WHEEL SEALS, FRONT Oil Lubricated, Includes Wheel Bearings
28DRN	<u>Notes</u> : Compatible Tire Sizes: 11R22.5, 12R22.5, 255/70R22.5, 255/80R22.5, 265/75R22.5, 275/70R22.5, 275/80R22.5, 295/75R22.5, 295/80R22.5 WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 5 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs <u>Includes</u> : PAINT IDENTITY, REAR WHEELS White : WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings <u>Notes</u>

<u>Code</u>	<u>Description</u>
	: Compatible Tire Sizes: 11R22.5, 12R22.5, 255/70R22.5, 255/80R22.5, 265/75R22.5, 275/70R22.5, 275/80R22.5, 295/75R22.5, 295/80R22.5
29PAR	PAINT IDENTITY, FRONT WHEELS {Accuride} Disc Front Wheels; With Vendor Applied (PKWHT21) White Powder Coat Paint
29PAS	PAINT IDENTITY, REAR WHEELS {Accuride} Disc Rear Wheels; With Vendor Applied (PKWHT21) White Powder Coat Paint
29WAP	WHEEL GUARDS, FRONT {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts Mounted Between Hub and Wheel
29WAR	WHEEL GUARDS, REAR {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts, Mounted Between Hub & Wheel and Between Dual Wheels
29WLA	WHEEL BEARING, FRONT, LUBE {EmGard 50W} Synthetic Oil
7372135415	(2) TIRE, FRONT 11R22.5 HSR2 (CONTINENTAL) 498 rev/mile, load range G, 14 ply
7372135418	(4) TIRE, REAR 11R22.5 HDR1 (CONTINENTAL) 495 rev/mile, load range G, 14 ply

Services Section:

40AMC	SRV CONTRACT, EXT VEH COVERAGE To 24-Month/100,000 Miles (160,000 km)/3600 Hours; With 90-Day Towing; Less Engine, With 52,000-lb Capacity or Less Rear Axle
40EGV	SRV CONTRACT, EXT ENGINE {2007 & 2010 EPA} To 60-Month/150,000 Miles (240,000 km), 5400 Hours; Includes Engine Electronics and Injectors; for MaxxFoer 10 Engines
	FILL FUEL TANKS
	DETAIL
	KEY, FILTER KIT AND FIRE EXTINGUISHER

(USA DOLLAR)

Description

Price

Net Sales Price:

\$83,011.37

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

Approved by Seller:

Accepted by Purchaser:

Official Title and Date

Firm or Business Name

Authorized Signature

Authorized Signature and Date

This proposal is not binding upon the seller without
Seller's Authorized Signature

Official Title and Date

ROBERTS



August 4, 2010

Los Alamos County
Norman Romero
901 Trinity Dr..
Los Alamos, NM 87544

Per: State of New Mexico Price Agreement number 80-000-00-00002 for Heavy Trucks.

For: 2011 International 7500 4x4 truck built for septic tank/pumper.

BASE PRICE OF 7500 4x2 cab & chassis-----	\$ 77,837.11
2010 Emissions Engine	\$ 6,000.00
Option E, 28,000 lb GVWR, deduct	\$ -780.00
Option F, 120" CA	\$ 212.60
Option G, front crank ext & PTO provision, deduct	\$ -140.40
Option H, straight truck trailer air brake system, deduct	\$ -145.60
Option K, dual heated power adjust mirrors	\$ 27.66
TOTAL COST OF Truck Cab Chassis-----	\$ 83,011.37

Allow 60-90 days for delivery of truck cab chassis ARO. FOB Los Alamos, NM.

Sincerely,

Brian Foster
Government Sales

BUSINESS

Approval of San Juan / Chama Study Bid

Presenter: James Alarid



BOARD OF PUBLIC UTILITIES

Agenda Documentation

Presenter James Alarid

Date 20 October 2010

SUBJECT

Agreement No. AGR 11-3735, with CDM, Inc., for the San Juan-Chama Project Water Supply Preliminary Engineering Report.

PURPOSE

The purpose of this agenda item is to request Utilities Board approval of Agreement No. AGR 11-3735 and approval of the project budget for the San Juan-Chama Project Water Supply Preliminary Engineering Report.

BACKGROUND

In January 2004 the first stage of the San Juan-Chama Project Water Supply project for Los Alamos County ended with the completion of a Feasibility Study by Boyle Engineering. Since that time relations with the governments adjacent to Los Alamos County (Santa Fe County and City, San Ildefonso Pueblo, US Forest Service, etc.) has improved to the point where it was considered in the public's best interest to restudy the possible alternatives for completion of this water supply project one last time before advancing into final design and construction.

Request for Proposals No. 2011-1753 was advertised for an engineering consultant. This second stage was advertised on 11 July 2010 for Statement of Qualifications to select the highest qualified consulting firm for the project. Three proposals were received. Two of the three firms were interviewed. CDM, in association with Bohannon-Huston, was the firm selected by the evaluation team after evaluation of the proposals and an interview. The sealed fee proposal from CDM, required along with the open qualifications based proposal, was then opened and used as the basis for final contract negotiation.

This second stage project will include requirements, schedules and costs for aspects of the project beyond just preliminary engineering design: detailed easements and rights-of-way, environmental clearances, possible shared facilities agreements, permitting, operating, replacement and construction costs will all be evaluated for various alternatives. Part of this current project's scope is the development and negotiation of binding agreements with adjoining governments, if necessary and possible. Another part of this current project's scope is the development to the 10% design stage of any portion of the project which is unusual or innovative. This way the final selected alternative will be truly feasible and the costs will be known.

The tentative schedule for this stage two project is approximately 14 months. The estimated start date for this project is 19 November 2010 with an estimated end date of 31 January 2012.

The third or following stage of the San Juan-Chama Project Water Supply project for Los Alamos County will be moving from the completion of this Preliminary Engineering Report directly into the final easement, right-of-way, environmental and permitting approval, final design and construction stage.

ATTACHMENTS

1. Agreement No. AGR 3518-09

STAFF IMPACT

Utility Engineering staff will provide project management.

FISCAL IMPACT

The project is budgeted in the DPU capital budget in FY11 for \$250,000 and FY12 for \$500,000. The San Juan-Chama Project Water Supply Preliminary Engineering Report project is funded in FY 2011 with a New Mexico Water Trust Board grant in the amount of \$250,000.

The total project budget is as follows:

AGR 11-3735 Base Cost	\$ 349,221
Optional Task for Additional Water Quality Testing	\$ 2,110
Project Contingency over Base Cost (5.0%)	\$ 17,500
Gross Receipts Tax over Base + Contingency Costs (7.3125%)	\$ 26,800
Total Project Budget	\$ 395,631

STAFF RECOMMENDATION

Staff recommends the Utilities Board approve Agreement No. AGR 11-3735 with CDM, for the San Juan-Chama Project Water Supply Preliminary Engineering Report.

SUGGESTED MOTION

I Move the Utilities Board approve Agreement No. AGR 11-3735 with CDM, for the San Juan-Chama Project Water Supply Preliminary Engineering Report project in the amount of \$395,631.00, plus applicable gross receipts tax, in a form acceptable to the County Attorney, and forward to Council for approval.



INCORPORATED COUNTY OF LOS ALAMOS SERVICES AGREEMENT

This **SERVICES AGREEMENT** (this "Agreement") is entered into by and between the **Incorporated County of Los Alamos**, an incorporated county of the State of New Mexico ("County"), and Camp Dresser & McKee Inc., a Massachusetts corporation ("Contractor"), to be effective for all purposes October 26, 2010.

WHEREAS, the County purchasing agent determined in writing that the use of competitive sealed bidding was either not practical or not advantageous to County for procurement of the Services and County issued Request for Proposals No. 2011-1753 ("the "RFP") on July 11, 2010, requesting proposals for San Juan-Chama Water Supply Preliminary Engineering Report services as described in the RFP;

WHEREAS, Contractor timely responded to the RFP by submitting a proposal, dated August 10, 2010 ("Contractor's Response");

WHEREAS, based on the evaluation factors set out in the RFP, Contractor was the successful offeror for said services;

WHEREAS, Contractor will provide the Services, as described below, to County;

NOW THEREFORE, for and in consideration of the premises and the covenants contained herein, County and Contractor agree as follows:

SECTION A. SERVICES:

1. **Contractor Services** shall be as described in descending order highest to lowest priority; (1) RFP No. 2011-1753, (2) Attached Scope of Services labeled as Attachment "A", (3) Proposal Interview Q&A dated September 22, 2010, (4) Proposal dated August 10, 2010.
2. **Deliverables** shall be by priority as described in; (1) RFP No. 2011-1753 and (2) Attached Scope of Services labeled as Attachment "A".

SECTION B. TERM: The term of this Agreement shall commence on or about October 26, 2010 and shall continue for 1.2 years thereafter unless sooner terminated as provided herein.

SECTION C. COMPENSATION:

1. **Amount of Compensation.** County shall pay compensation for the performance of the Services an amount not to exceed Three hundred forty nine thousand two hundred twenty

two dollars and no cents (\$349,221.00) which amount *does not include* applicable New Mexico gross receipts taxes (NMGRT) and shall include *all expenses*.

Compensation for Phase 1 services, as described in the RFP, shall be on a lump sum fee basis in an amount not to exceed Two hundred twenty seven thousand forty one dollars and no cents (\$227,041.00) which *amount does not include* applicable New Mexico gross receipts taxes (NMGRT) and shall *include all expenses*. *Lump sum fee amount shall include all expenses*.

Compensation for Phase 2 services, as described in the RFP, shall be on an hourly basis. Based on an estimated number of hours for work proposed within the scope of Phase 2, the compensation for Phase 2 services shall not exceed Fifty four thousand two hundred eighty eight dollars and no cents (\$54,288.00) which amount *does not include* applicable New Mexico gross receipts taxes (NMGRT) and shall include *all expenses*. If additional hours are necessary then an amendment to the agreement shall be required and approved by all parties prior to authorization of any additional work.

Compensation for Phase 3 services, as described in the RFP, shall be on a lump sum fee basis in an amount not to exceed Sixty seven thousand eight hundred ninety two dollars and no cents (\$67,892.00) which amount *does not include* applicable New Mexico gross receipts taxes (NMGRT) and shall include *all expenses*. *Lump sum fee amount shall include all expenses*.

- 2. Invoices.** Contractor shall submit itemized invoices to the Utilities Department showing the services provided dates services were provided, amount of compensation due, the amount of any NMGRT, and the total amount payable. Payment of undisputed amounts shall be due and payable thirty (30) days after County's receipt of the invoice. Invoices shall be submitted monthly and shall be accompanied by a detailed status report showing progress and schedule related issues.

SECTION D. TAXES: Contractor shall be responsible for payment of the NMGRT levied on the amounts payable under this Agreement.

SECTION E. STATUS OF CONTRACTOR, STAFF, AND PERSONNEL: This Agreement calls for the performance of services by Contractor as an independent contractor. Contractor is not an agent or employee of County and will not be considered an employee of County for any purpose. Contractor, its agents or employees shall make no representation that they are County employees, nor shall they create the appearance of being employees by using a job or position title on a name plate, business cards, or in any other manner, bearing the County's name or logo. Neither Contractor nor any employee of Contractor shall be entitled to any benefits or compensation other than the compensation specified herein. Contractor shall have no authority to bind County to any agreement, contract, duty or obligation. Contractor shall make no representations that are intended to, or create the appearance of, binding County to any agreement, contract, duty, or obligation. Contractor shall have full power to continue any outside employment or business, to employ and discharge its employees or associates as it deems appropriate without interference from County; provided, however, that Contractor shall at all times during the term of this Agreement maintain the ability to perform the obligations in a professional, timely and reliable manner.

SECTION F. STANDARD OF PERFORMANCE: The standard of care for all professional engineering and related services performed or furnished by Contractor under this Agreement will be the care and skill ordinarily used by members of Contractor's profession practicing under similar conditions at the same time and in the same locality

SECTION G. DELIVERABLES AND USE OF DOCUMENTS: All deliverables required under this agreement and developed by Contractor specifically for this project, including material, products, reports, policies, procedures, software improvements, databases, and any other products and processes, whether in written or electronic form, shall remain the exclusive property and shall inure to the benefit of County as instruments of service; Contractor shall not use, sell, disclose, or obtain any other compensation for such instruments of service. In addition, Contractor may not, with regard to all work, work product, deliverables or instruments of service required by this Agreement, apply for, in its name or otherwise, any copyright, patent or other property right and acknowledges that any such property right created or developed remains the exclusive right of County. Contractor shall not use deliverables in any manner for any other purpose without the express written consent of the County.

County acknowledges that such documents are not intended nor represented to be suitable for use on the project unless completed by Contractor, or for use or reuse by County or others on extension of the project or any other project without written verification or adaption by Contractor. Any such use or reuse, or any modification of the documents, without written verification, completion, or adaption, by Contractor, as appropriate for the specific purpose intended, will be at County's sole risk and without liability or legal exposure to Contractor or to Contractor's Consultants.

SECTION H. EMPLOYEES AND SUB-CONTRACTORS: Contractor shall be solely responsible for payment of wages, salary or benefits to any and all employees or contractors retained by Contractor in the performance of the Services. Contractor agrees to indemnify, defend and hold harmless County for any and all claims that may arise from Contractor's relationship to its employees and subcontractors.

SECTION I. INSURANCE: Contractor shall obtain and maintain insurance of the types and in the amounts set out below throughout the term of this Agreement with an insurer acceptable to County. Contractor shall assure that all subcontractors maintain like insurance. Compliance with the terms and conditions of this Section are a condition precedent to County's obligation to pay compensation for the Services and Contractor shall not provide any Services under this Agreement unless and until Contractor has met the requirements of this Section. County requires Certificates of Insurance or other evidence acceptable to County that Contractor has met its obligation to obtain and maintain insurance and to assure that subcontractors maintain like insurance. General Liability Insurance and Automobile Liability Insurance shall name County as an additional insured and provide that County will be notified no less than 30 days in advance of cancellation.

1. *[General Liability Insurance. \$1,000,000 combined single limit per occurrence.]*

2. Workers' Compensation. In an amount as may be required by law. County may immediately terminate this Agreement if Contractor fails to comply with the Worker's Compensation Act and applicable rules when required to do so.
3. *[Professional Liability Insurance: \$1,000,000. Professional Liability Insurance shall provide coverage for Services provided hereunder during the term of this Agreement and for a period of at least three (3) years thereafter.]*
4. Automobile Liability Insurance for Contractor and its employees: An amount at least equal to the minimum required by state law on any owned, and/or non-owned motor vehicles used in performing Services under this Agreement.

SECTION J. RECORDS: Contractor shall maintain throughout the term of this Agreement and for a period of six (6) years thereafter records that indicate the date, time, and nature of the services rendered. Contractor shall make available for inspection by County all records, books of account, memoranda, and other documents pertaining to County at any reasonable time upon request.

SECTION K. APPLICABLE LAW: Contractor shall abide by all applicable federal, state and local laws, regulations, and policies and shall perform the Services in accordance with all applicable laws, regulations, and policies during the term of the Agreement. In any lawsuit or legal dispute arising from the operation of this Agreement, Contractor agrees that the laws of the State of New Mexico shall govern. Venue shall be in the First Judicial District Court of New Mexico in Los Alamos County, New Mexico.

SECTION L. NON-DISCRIMINATION: During the term of this Agreement, Contractor shall not discriminate against any employee or applicant for an employment position to be used in the performance of the obligations of Contractor under this Agreement, without regard to race, color, religion, sex, age, national origin, sexual orientation or gender identity, disability or veteran status.

SECTION M. INDEMNITY: Contractor shall indemnify, hold harmless and defend County, its Council members, employees, agents and representatives, from and against all liabilities, damages, claims, demands, actions (legal or equitable), and costs and expenses, including without limitation attorneys' fees, of any kind or nature, arising from Contractor's negligent performance hereunder or breach hereof or the negligent performance of Contractor's employees, agents, representatives and subcontractors.

Section N. Limitation of Liability: In no event shall Contractor's total liability to County and/or any of the County's officers, employees, agents, contractors, or subcontractors for any and all injuries, claims, losses, expenses, or damages whatsoever arising out of or in any way related to this agreement from cause or causes, including, but not limited to, Contractor's wrongful act, omission, negligence, errors, strict liability, breach of contract, breach of warranty, express or implied, exceed the total amount of \$1,000,000.

SECTION O. FORCE MAJEURE: Neither County nor Contractor shall be liable for any delay in the performance of this Agreement, nor for any other breach, nor for any loss or damage arising from uncontrollable forces such as fire, theft, storm, war, or any other force majeure that could not have been reasonably avoided by exercise of due diligence.

SECTION P. NON-ASSIGNMENT: Contractor may not assign this Agreement or any privileges or obligations herein without the prior written consent of County.

SECTION Q. LICENSES: Contractor shall maintain all required licenses, including without limitation all necessary professional and business licenses, throughout the term of this Agreement. Contractor shall require and shall assure that all of Contractor's employees and subcontractors maintain all required licenses, including without limitation all necessary professional and business licenses.

SECTION R. PROHIBITED INTERESTS: Contractor agrees that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of its services hereunder. Contractor further agrees that it will not employ any person having such an interest to perform services under this Agreement. No County Council member or other elected official in County, or manager or employee of County shall solicit, demand, accept or agree to accept a gratuity or offer of employment contrary to Section 31-282 of the Los Alamos County Code.

SECTION S. TERMINATION:

1. **Generally.** County may terminate this Agreement with or without cause upon ten (10) days prior written notice to Contractor. Upon such termination, Contractor shall be paid for Services actually completed to the satisfaction of County at the rate set out in Section C. Contractor shall render a final report of the Services performed to the date of termination and shall turn over to County originals of all materials prepared pursuant to this Agreement.
2. **Funding.** This Agreement shall terminate on the first day of any County fiscal year for which funds to pay compensation hereunder are not appropriated by the County Council. County shall make reasonable efforts to give Contractor at least ninety (90) days advance notice that funds have not been and are not expected to be appropriated for that purpose.

SECTION T. NOTICE: Any notices required under this Agreement shall be made in writing, postage prepaid to the following addresses, and shall be deemed given upon hand delivery, verified delivery by telecopy (followed by copy sent by United States Mail), or three days after deposit in the United States Mail:

County:

Incorporated County of Los Alamos
Department of Public Utilities
170 Central Park Square
Los Alamos, NM 87544
Attn: Jack Richardson, PE

Contractor:

Camp Dresser & McKee, Inc.
6000 Uptown Blvd., NE
Suite 200
Albuquerque, NM 87110-4273
Attn: Tom Parker, PE



COUNTY OF LOS ALAMOS

170 Central Park Square, Los Alamos, New Mexico 87544 (505) 662-8052

Procurement & Risk Management Division

July 9, 2010

REQUEST FOR PROPOSALS No. 2011-1753

For

San Juan-Chama Project Water Supply Preliminary Engineering Report

GENERAL INFORMATION

Sealed proposals, one unbound original and 5 bound copies, will be received at the Office of the Purchasing Agent, 101 Airport Basin, Building 3, Los Alamos, NM 87544, until 2:00 p.m. MT, August 10, 2010, for this solicitation.

An opportunity to discuss the project will be provided at a non-mandatory pre-proposal meeting on July 16, 2010 at 10:00 a.m. at the Los Alamos County Department of Public Utilities Conference Room, 170 Central Park Square, Los Alamos, New Mexico.

Proposals are invited from all qualified respondents. No Proposal may be withdrawn after the scheduled closing time. Proposals will not be accepted after the scheduled closing time.

The budget for this study is \$350,000.

BACKGROUND

Introduction of the San Juan-Chama Project Water Supply Preliminary Engineering Report

A Feasibility Study on the development of the 1,200 acre-feet of San Juan-Chama Project water supply currently available to the Incorporated County of Los Alamos was completed and published in January 2004. This feasibility study focused on all facilities being independent of any neighboring jurisdiction. The County is comfortable with the feasibility of this alternative, however, there may now be some possibility of shared resources with neighboring jurisdictions that might be cost effective in developing this water resource. Therefore the Incorporated County of Los Alamos is completing one last evaluation of possible feasible alternatives before recommending the development of these facilities through this Preliminary Engineering Report.

Los Alamos County has the authority to withdraw 5,541.3 acre-feet (AF) of water annually from a combination of underground and surface water sources other than the San Juan-Chama Project water authorization. Currently all functioning water supply facilities are groundwater wells. These wells supply all of the domestic, commercial and industrial water needs of the communities of Los Alamos, White Rock and the Los Alamos National Laboratory (LANL). Existing surface water facilities in Water Canyon, Los Alamos Canyon and Guaje Canyon have been utilized in the past but are not now in use and are in various stages of disrepair.

This PER is to develop the four alternatives considered feasible by County staff, and possibly a fifth Consultant devised alternative, to the point where an evaluation can be made to determine which alternative is in the best interests of the community. The Consultant is encouraged to develop additional ideas that may modify one of the four proposed alternatives or a new additional alternative for inclusion in the Proposal. Feasibility is hereby defined as a project that can: Receive regulatory approvals to construct, operate and maintain; Have reasonable terms on negotiated agreements between jurisdictions for either shared use of facilities or long term leases, easements, rights-of-way, etc.; Be environmentally sensitive and capable of receiving the necessary clearances; Be economical to construct, operate and maintain; Be completed and functioning within the next 3 to 7 years; Provide drinking water that meets all federal and state requirements to the citizens of Los Alamos County.

Justification for the Project

Developing this important water right will help secure the future of Los Alamos County by enabling the County to grow the residential, commercial and industrial sectors of the local economy. Of the 5,541.3 acre-feet currently available to the County 70% (3,878.91 AF) is owned outright by the County and 30% (1,662.39 AF) is leased from the Department of Energy (DOE). This 30% has been established as a maximum "target quantity" for water use by LANL. Historic use at LANL between 1998 and 2009 has averaged 1,159 acre-feet per year and projected growth of 503.39 acre-feet (43%) does not seem unreasonable to occur within the next 100 years. Average water use by Los Alamos County (non LANL) between 1998 and 2009 (current population approximately 18,000) has been 3,171 acre-feet. A residential, commercial and industrial water use increase of 707.91 acre-feet, to reach the current maximum right of 3,878.91 acre-feet, limits total growth in the County to 22% or approximately 4,200 people over the next 100 years.

Development of the San Juan-Chama Project water supply will also provide an immediate benefit to the County by allowing for the resting of the existing water sources which are now all underground water wells. Resting of these wells either through seasonal use of the San Juan-Chama Project water or by long term decreases in production off set by San Juan-Chama Project water will allow for water tables in these areas to stabilize and recover. An alternative water source will also provide a factor of safety in the event that future legacy contamination is discovered migrating into the vicinity of any of the existing ground water supply wells.

The addition of 1,200 acre-feet of San Juan-Chama Project water will serve residential, commercial and industrial growth up to an approximate equivalent population of 7,100 while also enabling projected growth at LANL to occur as proposed and unimpeded by water resource supply limitations.

Project Schedule - PER Specific and Overall San Juan-Chama Project Schedule

The County desires this project to be completed as expeditiously as possible. However, due to the fact there are aspects of this project dependent upon factors outside the direct control of the Consultant, the Consultant is required to break the schedule down to match the three phases of the project. This way the County can compare proposed schedules and work efforts between the various proposals received for this project with the assumption that all non-controllable schedule items will be the same for each proposal. The Consultant is encouraged to estimate reasonable time frames and schedules.

Two schedules will be developed for this project. The first schedule is for the performance of the Consultant and when each PER project milestone will be met, including full report completion. This schedule is to be submitted with the Consultant's proposal document. The second schedule is for the entire scope of the Los Alamos County San Juan-Chama Project Water

Supply project showing the critical path for all items needing completion up to and including first use of the San Juan-Chama Project water. This second schedule will be developed during the final phase of the PER and will be included within the final Preliminary Engineering Report as a deliverable.

OBJECTIVE

The objective of this project is the completion of a Preliminary Engineering Report that leads directly into the environmental clearance, final acquisition of easements and ROW, permitting, final design and construction of the alternative that enables the County to utilize its entire annual allocation (1,200 acre-feet) of San Juan-Chama Project water supply in the most economical and beneficial way.

SCOPE OF WORK

County staff has developed four separate alternatives that are thought to be the most feasible opportunities for creation of the project that will develop the 1,200 acre-feet of San Juan-Chama Project water. The issues that differentiate these alternatives are described in detail in Appendix "A" and project maps are in Appendix "B" of this document. The Consultant is encouraged to develop additional ideas that may improve one of the four proposed alternatives or a new additional alternative, if such exists, for inclusion in the Proposal. These four, or five, alternatives are all different in terms of location, existing system connection point, water source type, treatment requirements, environmental and permitting requirements, necessary negotiations with adjoining jurisdictions and construction and operational costs. As such, the comparison of these very different alternatives will require not only a simple comparison of construction, operation/maintenance and replacement costs but also cost and schedule comparisons regarding negotiations for use rights of existing facilities as well as requirements for completion of environmental clearances, easement and ROW acquisition and permitting.

The Consultant is to develop not only each alternative with enough detail to allow for an accurate comparison but they are also to develop the methodology proposed for comparison and analysis. Spreadsheet(s) or matrix(s) to visualize and quantify the comparison between each alternative so that differences between the alternatives are easily identifiable are to be proposed by the Consultant. The County shall approve the use of any final methodology.

The scope of work for this project is divided into three separate phases.

In the first phase the Consultant is to develop all alternatives with enough detail so an accurate evaluation and comparison can be made between each alternative. Alternatives shall be sufficiently developed to allow for accurate estimates of capacity, costs and requirements for easement and ROW acquisition, environmental clearances and permitting as well as requirements for negotiations with adjoining jurisdictions. The first phase shall include research, development, analysis, evaluation and presentation of preliminary findings in a phase one PER. One result of this first phase is the determination for which of the proposed alternatives are feasible in terms of: Being able to supply the necessary 1,200 acre-feet of water; Being constructible; Having a reasonable chance of successful negotiation. Another result of the first phase is an initial preliminary cost estimate for each feasible alternative. Preliminary estimates for construction, O&M and replacement costs and also for the schedule and cost aspects of negotiations with adjoining jurisdictions, easement and ROW acquisition, environmental clearances and permitting shall be considered. First phase cost estimates shall be developed using industry standard approaches to construction, O&M and replacement costs. First phase schedule and cost estimates regarding the anticipated probable term length for easements and ROW acquisitions and shared use of facilities and how those term lengths would influence the replacement cost estimate shall utilize good faith estimates as determined in consultation with

County staff. Environmental clearance and permitting time to completion periods and costs shall also utilize industry standard approaches and good faith estimates as determined in consultation with County staff. Preliminary alternative development, analysis, evaluation and cost estimates shall be based on existing information provided by the County (Appendix "C") and new information developed by the Consultant. These initial preliminary estimates will be utilized by the County in the necessary negotiations with the adjoining jurisdictions (Pueblo de San Ildefonso, Buckman Direct Diversion Board, City of Santa Fe, County of Santa Fe, U.S. Army Corps of Engineers (USACE), U.S. Forest Service (USFS), Bureau of Reclamation, State of New Mexico, etc.). The phase one PER document shall be formatted per the final document described in phase three. This phase will be administered as a lump sum fee schedule with a not to exceed value based on estimated personnel hours and rates for proposed tasks and sub-tasks.

The second phase scope of work is for the Consultant to assist the County during the discussions and negotiations with the adjoining jurisdictions. This assistance may include attendance at meetings when requested, updating spreadsheets or modifying cost estimates based on information resulting from meetings, and providing assistance to the County in determining the final selected alternative. The anticipated outcome of the phase two effort is to either have successfully completed negotiations, including enforceable signed documents, regarding shared use of facilities and acquisition of required easements and ROW with terms sufficient to allow that alternative to proceed cost effectively or to select the alternative that does not impact adjoining jurisdictions and therefore does not require any negotiated agreements. This phase will be administered on a time and material basis with estimated not to exceed hours and rates for the Consultant's personnel.

Phase three consists of completing the PER document recommending the selected final alternative. Additional development of the selected alternative sufficient to develop preliminary schematic design sketches and preliminary specifications of the selected alternative's unique materials and equipment are anticipated to be a part of the phase three effort. The format and information presented in this final PER document shall meet the requirements of the New Mexico Environment Department - Construction Programs Bureau, U.S. Department of Agriculture - Rural Utilities Services and the New Mexico Finance Authority which all reference USDA-RUS Bulletin 1780-2 "Preliminary Engineering Report Water Facility". It is anticipated that this phase will also be administered on a lump sum fee basis with estimated personnel hours and rates for proposed tasks.

Detailed Scope of Work

Phase 1 - Develop, Analyze and Evaluate the Proposed Alternatives

Each of the below listed scope items shall be consistent across all of the project alternatives.

If the hydrologic analysis and evaluation for alternative 3 indicates that the full 1,200 acre-feet annual allotment of San Juan-Chama Project water is not available then discussions with County staff shall ensue to determine if alternative 3 is eliminated from further consideration or scaled down to collecting the maximum surface water supply available in combination with another of the alternatives to reach the full 1,200 acre-feet allotment. Conversely, if the hydrologic analysis for alternative 3 indicates that significantly more than 1,200 acre-feet would be available annually then discussions with County staff shall ensue to determine if alternative 3 is expanded beyond a capacity of 1,200 acre-feet annually.

1. Narrative of each alternative. The narrative should describe the technical aspects of the alternative. The narrative should also describe the non-technical challenging aspects of each alternative, such as: necessary negotiations required to obtain easements or rights-

- of-way; negotiations for shared use of existing facilities; environmental requirements that would need to be fulfilled or can be avoided; impacts to the overall project schedule due to negotiations or environmental requirements; special permitting requirements; differences between alternatives; other interesting/important aspects to each alternative.
2. Clean consistently scaled maps: an overall State or Regional map showing the general Los Alamos and Rio Grande area; an overall County/Regional map showing the location of sites for each alternative on a single map; a schematic drawing of each alternative showing the technical details and interesting features of each alternative; and a map with an aerial photo or USGS topo and contour background showing the location of the major features of each alternative at a scale capable of showing acceptable project details.
 3. Develop feasible, efficient and cost effective routes for all proposed lines and locations for all proposed facilities for each alternative.
 4. Determine the most appropriate point(s) of connection into the existing system and the relevant elevations and pressures (static and dynamic) for each alternative. Include preliminary consideration of water hammer potential and mitigation.
 5. Capacity evaluation for each alternative will vary based on the type of supply and its particular seasonal and diurnal capacity. The minimal acceptable capacity for each alternative is the capacity that will allow the County to capture and use the full allotted annual 1,200 acre-feet utilizing typical and normal operating procedures. Typical and normal operating procedures include down time for maintenance, emergency outages and water demand requirements that may or may not match supply availabilities on a diurnal or seasonal basis. A capacity that requires 24 hour a day 7 day a week 365 day a year operation to fulfill demand needs will not be considered acceptable. A capacity that fulfills demand needs over an 8 hour period each day, not including weekends, would be considered optimum. It is anticipated that the final capacity of each alternative will fall somewhere between these two limits with the final determination of acceptable capacity made by the County in consultation with the Consultant.
 6. Verify that the existing system where the proposed connection for the introduction of San Juan-Chama Project water is to be made is capable of accommodating the San Juan-Chama Project water for each alternative. If modifications to existing facilities are required these modifications shall be incorporated into the requirements of this project.
 7. Verify that, for each alternative, diurnal and seasonal availability for the capture of San Juan-Chama Project water and introduction into the existing system will be accommodated by the existing system water usage schedule and water loss or overflow of storage tanks will not occur. If modifications to existing facilities such as pump stations, piping or increased storage are required these modifications shall be incorporated into the requirements of this project.
 8. Using existing water quality information, determine the type and amount of treatment required by the New Mexico Environmental Department and the Safe Drinking Water Act for each alternative.
 9. Quantify and evaluate impacts to the existing systems' (Los Alamos Town Site (also typically serving LANL) and White Rock) water quality due to the proposed introduction of San Juan-Chama Project water. San Juan-Chama Project water diverted from the Rio Grande is known to have higher levels of PCB concentration and lower levels of silica content than the water currently utilized in both the Town Site and White Rock systems. Jemez Mountain range direct runoff surface and spring water quality in regards to these constituents appears to more closely match existing ground water sources. Provide an analysis and discussion of these impacts on the project costs and schedule as well as on the impact for use within the existing (especially LANL) systems.
 10. 2010 Construction Cost Estimates of each alternative, including an annual adjustment factor for construction cost using ENR Construction Cost Projections, New Mexico Cost of Living Adjustment or another adjustment factor acceptable to the County so that, in case the construction of the project is delayed into the future, the County can easily determine the future anticipated construction cost of each alternative.

11. Annual Operation and Maintenance Cost Estimates for each alternative, including repair costs and an annual cost adjustment factor through the 100 year life of the PER analysis.
12. Replacement Cost Estimates for each alternative, including an annual adjustment factor for replacement cost using ENR Construction Cost Projections, New Mexico Cost of Living Adjustment or another adjustment factor acceptable to the County. This category of cost is needed as a separate listing in anticipation of the replacement cost possibly being revised as discussions and negotiations with adjoining jurisdictions occur; particularly in relation to the length of time (in years) for easement and ROW use for facilities on non-County property or the shared use of facilities with adjacent jurisdictions.
13. 2010 Easement and ROW Acquisition Cost Estimates, including administrative costs for each alternative. This category of cost is needed as a separate listing in anticipation of this cost being somewhat changeable as discussions and negotiations with adjoining jurisdictions occur. The first phase PER effort in this regard will be to estimate both the cost of the easement and ROW acquisition and the administrative cost to secure the property (title reports and insurance policies, negotiation meetings, recording fees, etc.) based on discussions with the County. The second phase PER effort will be to assist the County in discussions and negotiations. The third phase PER will include all final costs for shared facility use, easements and ROW acquisition and permitting.
14. 2010 Environmental Cost Estimates, including research, document preparation, meetings for discussion and negotiations and other relevant costs for each alternative. This category of cost is needed as a separate listing in anticipation of this cost being somewhat changeable as discussions and negotiations with adjoining jurisdictions occur.
15. 2010 Permitting Cost Estimates, including research, document preparation, meetings for discussion and negotiations and other relevant costs for each alternative. This category of cost is needed as a separate listing in anticipation of this cost being somewhat changeable as discussions and negotiations with adjoining jurisdictions occur.
16. 2010 Present Worth Cost Estimate comparison, including a unit cost per 1,000 gallons, for each alternative for a projected project life of 100 years: which is the length of the typical requirement for a water supply assurance.
17. Matrix of Pros & Cons for each alternative. The important aspects of this project are cost, schedule and feasibility in terms of easement and ROW acquisition, shared facility use, environmental clearances and permitting. The Consultant shall propose the comparison methodology and type of matrix or set of matrices best suited to this project: subjective or objective and numerical or both.

Phase 2 - Assist the County in Meetings, Discussions and Negotiations with Stakeholders

1. Stakeholders are: Los Alamos County, Pueblo de San Ildefonso, Buckman Direct Diversion Board, City of Santa Fe, County of Santa Fe, U.S. Forest Service, U.S. Army Corps of Engineers, Bureau of Reclamation, State of New Mexico (State Engineer), U.S. Department of Energy, LANL and the Citizens of Los Alamos County.
2. Meetings, discussions and negotiations will be coordinated by the County and attended by the Consultant as requested. During this process issues related to the preliminary cost estimates and schedules may be raised and these cost and schedule estimates may need to be revised through the course of these meetings, discussions and negotiations.
3. Enforceable documents signed by the appropriate parties to any agreements necessary to enable an alternative to become a reality shall be the responsibility of the County.

Phase 3 - Finalize Preliminary Engineering Report

1. Update the phase one PER document to reflect all pertinent information resulting from discussions and negotiations with all stakeholders.
2. Recommend selected alternative.
3. Preliminary schematic design sketches.

4. Preliminary specifications of selected alternative's unique materials and equipment.
5. Final project path forward for completion of design, easement and ROW, environmental, permitting and construction; including but not limited to: agency(s) or parties involved, enabling act and regulations, type of documents required, estimated time to completion, other appurtenant permits or documents required - in a narrative and tabular format.
6. Final 2010 total project cost estimates for construction, easement and ROW acquisition, environmental clearances, permitting, operation and maintenance and replacement for the selected alternative in a narrative and tabular format.
7. Final selected alternative 100 year present worth cost comparison with the remaining non-selected alternatives in a narrative and tabular format.
8. Final schedule for development and completion of the San Juan-Chama Project Water Supply project.

DELIVERABLES

The selected Consultant shall:

1. Provide a preliminary work plan to the County within 2 weeks of project start. The work plan shall include the detailed technical approaches to be used and the Preliminary Engineering Report (PER) project schedule, describing the procedures, methods and time frames to be used in completing the project. This preliminary work plan will be reviewed by the County and the County will provide written comments to the Consultant within two weeks. Upon receipt of comments the Consultant shall incorporate all agreed upon County comments and prepare the final work plan and provide for County approval in two weeks.
2. Conduct site visits, evaluations of existing documentation, testing and analysis as determined by the Consultant and approved by the County to be necessary for completion of the initial PER report.
3. Coordinate, manage and attend all meetings with outside governmental agencies and County staff (and possibly adjoining jurisdictions) as determined jointly by the Consultant and County to be necessary for completion of the initial phase one PER report. The County shall assist the Consultant with the coordination of meetings with adjoining jurisdictions if any such meetings are necessary.
4. Provide a draft initial phase one PER document describing the alternatives, findings, conclusions and recommendations. The Consultant shall provide the draft initial PER document no later than 2 weeks prior to the draft report review meeting.
5. Present the draft initial phase one PER to County staff in a meeting discussion format. The County shall provide final comments within two weeks. The Consultant shall incorporate all agreed upon County comments and prepare the final version of the initial phase one PER. The Consultant shall also provide an outline of the final PER document and any additional information needed for the completion of the final PER document that is not included in the initial phase one PER.
6. Assist the County by attending phase two meetings, when requested, with adjoining jurisdictions and governmental agencies to discuss and negotiate easement and ROW acquisition, facility shared use rights, environmental clearances and permit approvals required for the completion, through construction and start up, of the San Juan-Chama Project Water Supply project. The Consultant shall modify cost estimates and present worth cost analyses as necessary depending on the outcome of any discussions and negotiations as requested by the County.

7. Assist the County in the selection of a final alternative and development of a final schedule for the San Juan-Chama Project Water Supply project. The Consultant shall develop preliminary design schematic sketches and specifications for any specialized materials or equipment required for the selected alternative. The Consultant shall complete the final phase three PER document and the final San Juan-Chama Project Water Supply project schedule.
8. Provide a draft phase three PER document describing the alternatives, findings, conclusions and recommendations. The Consultant shall provide the draft initial PER document no later than 2 weeks prior to the draft report review meeting.
9. Present the draft phase three PER to County staff in a meeting discussion format. The County shall provide final comments within two weeks. The Consultant shall incorporate all agreed upon County comments and prepare the final version of the PER.
10. Present the final PER to the Utility Board and County Council at separate meetings. Consultant shall be responsible for the development and presentation of visuals such as power point presentations and hard-board mounted maps.
11. Provide each month to the County a narrative project summary for all work completed for that month along with an estimate of the percent complete for the deliverables.
12. All deliverables for all phases shall be in both paper and digital format. Spreadsheets and text documents shall be compatible with Microsoft Excel 2007 and Microsoft Word 2007 respectively. Ten copies of both the phase one and phase three PER shall be delivered in bound 3-ring binder paper format with color maps and slides. The final PER shall also be delivered in a single Adobe pdf document file with color maps and slides.

PROPOSAL FORMAT

Proposal length shall not exceed 12 double sided or 24 single sided pages. The page limit does not include the front and back covers, the resumes or biographies described in Item 8, the separate referenced and sample PER documents described in Items 9 and 10 and the separate sealed envelope containing the complete fee proposal. Proposals shall include the following items as listed herein. To facilitate evaluation please format the proposal in a similar order.

1. A cover letter introducing the firm's and proposed key personnel's experience with similar scope and size systems' projects.
2. Summary of the technical approach for how the comprehensive development, analysis and evaluation of each of the alternatives will be conducted including the firm's and proposed key personnel's experience with preliminary engineering reports that include: horizontal collector wells, tunnel boring operations, hydrologic evaluations, water treatment facilities, pipeline and pumping stations for similar scope and size.
3. Summary of the administrative approach describing the roles and responsibilities of the individual team members throughout the life of the project.
4. Summary of key personnel's experience and responsibilities regarding technical project development and evaluation, easement and ROW acquisition, environmental clearances, permitting requirements, operations and maintenance for similar scope and size projects.
5. Summary of the firm's proposed alternative evaluation methodology and successful use of this methodology on similar projects systems including descriptions of all evaluation and analysis tools and methods to be utilized.
6. Summary of the approach to the project listing detailed work tasks and subtasks with estimated hours cross referenced to proposed team members and team staff - by Phase.

7. Proposed Preliminary Engineering Report project schedule. Assume four weeks (two weeks for review before and two weeks after review meeting) for any schedule item showing County review and/or approval - by Phase.
8. Resumes or biographies for all key personnel who will be conducting the work, showing relevant experience and responsibilities.
9. Reference list of at least three preliminary engineering reports of similar scope that have been completed, including client name, address, project name, date of project, project scope, key personnel, project budget, beginning and final cost, contact name, position, phone number, and email address. Verify all contact information is current. The reference list should include projects done by the key personnel listed previously.
10. One or two samples of prior successful preliminary engineering reports with similar scope and technical requirements to this proposed report. Two copies of each sample document with color maps and diagrams (if appropriate) shall be sufficient for the proposal submittal.
11. Separately sealed envelope containing a full fee proposal following the three phase approach to this project. Include all necessary description of possible variables due to unknown factors. This fee proposal shall relate closely to the summary listing of detailed work tasks and subtasks. This fee proposal will be utilized as the starting point for the contract negotiations with the selected firm.

PROPOSAL EVALUATION CRITERIA

Proposals will be evaluated based on the following criteria and weighted points:

Criteria	Weighted Points
1. Project approach and experience with development, analysis and evaluation of horizontal collector wells, tunnel boring operations, hydrologic evaluations, water treatment facilities, pipeline and pumping stations with similar equipment and systems	40
2. Key personnel experience and qualifications regarding technical issues	20
3. Key personnel experience and qualifications regarding easement & ROW, environmental and permitting issues	20
4. Previous referenced and sample preliminary engineering reports	10
5. Approach to personnel and task list and PER schedule	10
TOTAL	100

The evaluation committee, consisting of technical staff from the Department of Public Utilities, will evaluate, score and rank the proposals. Scoring approach is defined in the notes section of the Professional Services Evaluation Committee Individual Scoring Sheet attached in Appendix "E" of this document. The Consultant selection will be based on the qualifications and experience presented in the proposal. All separately sealed envelopes containing the full fee proposals of firms not selected for contract negotiations will be returned unopened.

The County reserves the right to request an interview and presentation as a follow-up part of the evaluation process for one or more firms.

APPENDIX "A"

DETAILS OF THE ALTERNATIVES PROPOSED BY THE COUNTY

The County has, based on their collective knowledge of the issues and understanding of their adjacent jurisdiction neighbor's various positions, developed four different alternatives that are thought to be feasible as the ultimate solution to the capture and use of the San Juan-Chama Project water supply. The alternative maps in Appendix "B" and the various details described below list the pertinent issues relevant to each alternative and that tend to differentiate the alternatives. Each of these alternatives, and any additional alternative proposed by the Consultant and accepted by the County, shall be developed, analyzed and evaluated to the degree necessary to ensure technical feasibility (or not) as well as comparisons of cost, easement and ROW acquisition needs, environmental clearance and permitting requirements anticipated to be a part of this project based on the generic requirements listed previously as well as the detailed items listed within these alternative details.

Alternative No. 1 - San Ildefonso Collector Well with Guaje Canyon Connection to Los Alamos Town Site System

- Verify the feasibility of using the existing horizontal collector well of the Pueblo de San Ildefonso and confirm/evaluate potential capacity with or without shared use
- Determine if any additional collection facilities are required
- Final design must be unobtrusive and impervious to flood impact and damage
- Negotiations will be required with the Pueblo de San Ildefonso, City of Santa Fe and County of Santa Fe regarding the cost, if any, to Los Alamos County for utilization of the existing horizontal collection well facility or for the construction of additional horizontal collection well facilities
- Follow existing roads for new pipelines both outside and inside of County property to the maximum extent possible
- Negotiations will be required in determining necessary Inter-Governmental Agreements (Pueblo de San Ildefonso, City of Santa Fe, County of Santa Fe, USACE, Bureau of Reclamation, State of New Mexico, DOE, LANL) for easement and ROW acquisition, environmental clearances and permitting

Alternative No. 2 - Buckman Direct Diversion with Connection to White Rock System

- Confirm/evaluate the potential capacity of the Rio Grande Buckman Direct Diversion structure and sedimentation ponds with and without Los Alamos County shared use
- Evaluate City and County of Santa Fe San Juan-Chama Project water usage and how Los Alamos County use of these facilities would impact that usage or fit in with that usage (seasonal, diurnal, regulatory)
- Determine pumping schedule to provide for full 1,200 AF per year utilization and how such Los Alamos County pumping will impact Santa Fe City and County pumping
- Negotiations will be required with Buckman Direct Diversion Board, City of Santa Fe and County of Santa Fe regarding Los Alamos County use of the existing Buckman Direct Diversion and sedimentation facilities (cost sharing, O&M responsibilities, etc.)
- Follow the existing road used for maintenance of the existing electric power line for new pipelines until as close as possible to County property to the maximum extent possible
- Negotiations will be required in determining necessary Inter-Governmental Agreements (Pueblo de San Ildefonso, Buckman Direct Diversion Board, City of Santa Fe, County of Santa Fe, USFS, USACE, Bureau of Reclamation, State of New Mexico, DOE, LANL) for easement and ROW acquisition, environmental clearances and permitting

Alternative No. 3 - Surface Water Connection(s) to Los Alamos Town Site System

- Conduct an evaluation of Los Alamos Canyon and Guaje Canyon watersheds above the existing reservoirs using historic records of use and possible known historic stream flow measurements as well as a hydrologic evaluation using the natural runoff, or run-of-the-river, approach where the existing reservoirs would essentially be undersized for storage but available for capture and diversion
- Verify/evaluate the capacity and capability of the existing reservoir's newly designed intake structure and existing 10 inch steel pipeline between the Los Alamos Reservoir and the proposed connection to the existing water system on West Road and determine any required upgrades or re-construction required
- Evaluate the capacity and capability of the existing reservoir's intake structure and 6 inch steel pipeline between the Guaje Reservoir and the connection to the existing water system on Range Road adjacent to the Guaje Pines Cemetery and determine any required upgrades or re-construction required
- Conduct an evaluation of the Water Canyon spring box using historic records of use and possible known historic stream flow measurements
- Evaluate the capacity and structural capability of the existing Water Canyon spring box and determine any required upgrades or re-construction required
- Evaluate the capacity and capability of the existing 6 inch steel and 6 inch HDPE pipelines between the Water Canyon spring box and the existing TA-16 water storage tanks
- Determine the treatment requirements from the New Mexico Environment Department and develop the location, capacity and type of treatment plant for the water from each of the three surface water sources: Los Alamos Reservoir; Guaje Reservoir; Water Canyon Spring
- Determine whether it would be most cost effective to combine all surface water flows into a single treatment plant and storage site and system connection or whether to develop two or three separate treatment plant sites and connection points
- Evaluate the possibility of re-acquiring access to and use of the Guaje Reservoir
- Negotiations will be required with the State of New Mexico to determine the acceptability of the proposal to substitute locally captured runoff from the Jemez Mountains in lieu of a direct Rio Grande diversion of actual San Juan-Chama Project water either for the entire 1,200 acre-feet or for a portion of the 1,200 acre-feet amount
- Negotiations will be required in determining necessary Inter-Governmental Agreements (State of New Mexico, USFS, USACE, DOE, LANL) for easement and ROW acquisition, environmental clearances and permitting

Alternative No. 4 - Mesa Top Tunnel Connection to White Rock System

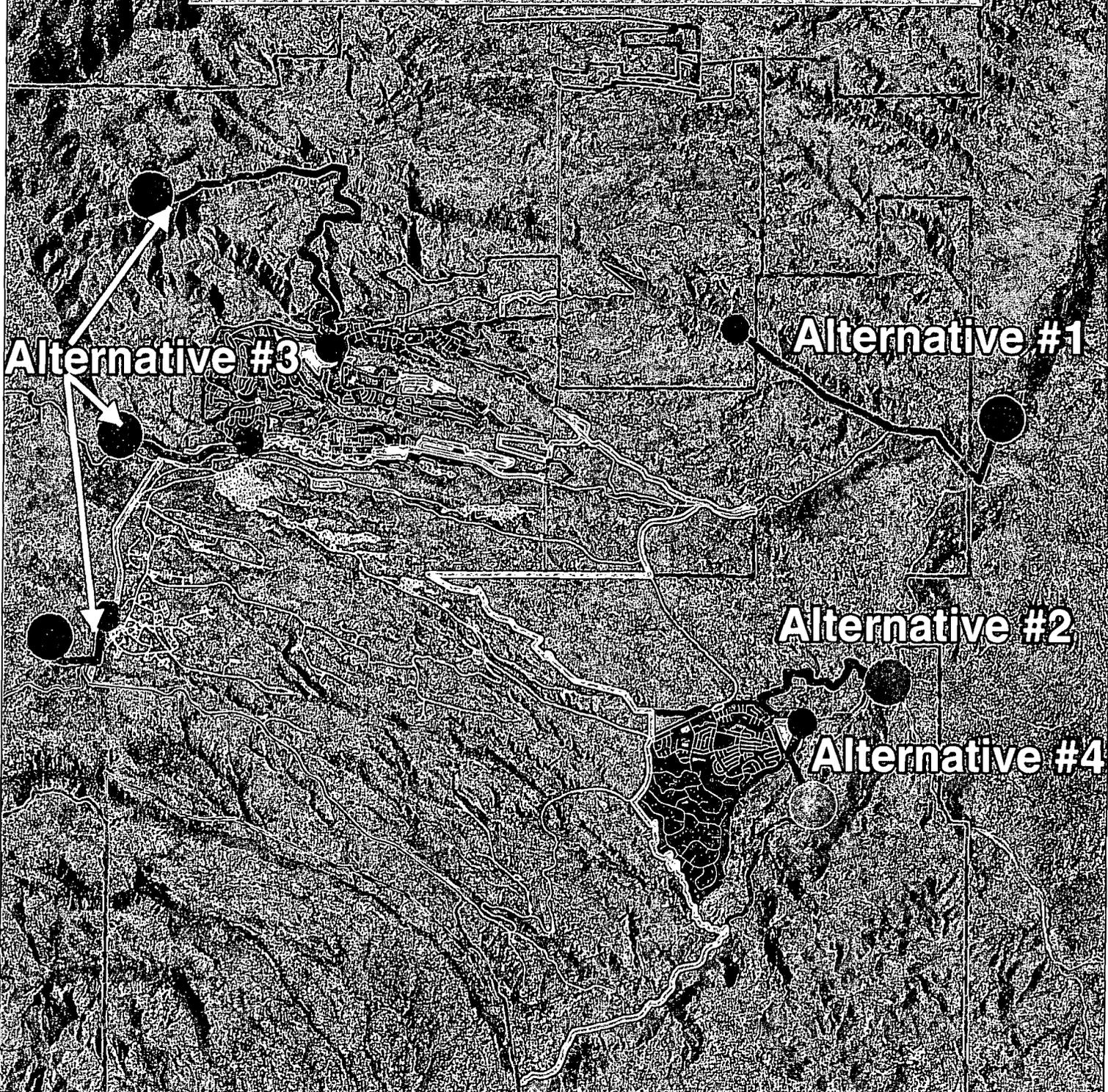
- Evaluate the 2004 San Juan/Chama Water Supply Feasibility Study Mesa Top Tunnel option using tunnel boring technology
- Verify the capacity and size of required horizontal collector well facilities
- Determine how the horizontal collector well and tunnel boring operations can be constructed with temporary and minimal environmental impact with spoils either being removed up through the vertical bore hole or remaining on site in an acceptable manner
- Final design must be unobtrusive and impervious to flood impact and damage
- Factor into the O & M cost estimate the use of helicopter access for routine river bank facility maintenance of the horizontal collector well facilities
- Negotiations will be required in determining necessary Inter-Governmental Agreements (USACE, Bureau of Reclamation, DOE, LANL) for environmental clearances and permitting

APPENDIX "B"

PROJECT RFP MAPS

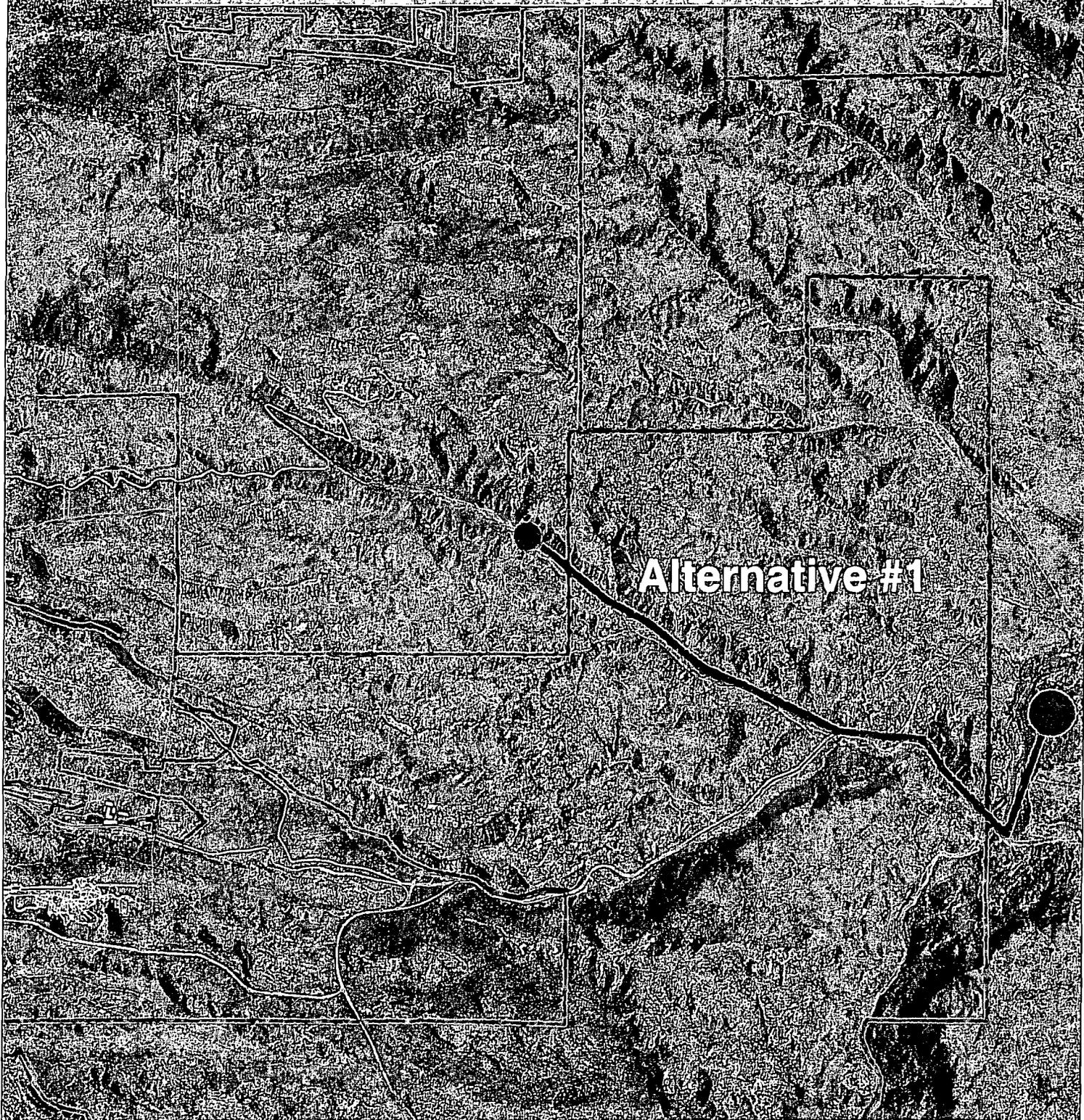
- **All Alternatives Overview Map**
- **Area Map for Alternative No. One**
- **Area Map for Alternatives No. Two and Four**
- **Area Map for Alternative No. Three**

**San Juan - Chama Water Supply
 Alternatives Overview Map
 Incorporated County of Los Alamos
 Request for Proposal Bid No. 2011-1753**



	<p>Legend</p> <p>LAND OWNERSHIP</p> <ul style="list-style-type: none"> COUNTY SANTA FE NATIONAL FOREST BUREAU OF INDIAN AFFAIRS DEPARTMENT OF ENERGY BANDELIER NATIONAL MOUNMENT 	<ul style="list-style-type: none"> Water Pipe Alignment Point of Diversion Point of Delivery
<p>1 inch = 10,000 feet</p>	<p>0 5,000 10,000 15,000 20,000 Feet</p>	

Area Map: San Juan - Chama Water Supply Incorporated County of Los Alamos Request for Proposal Bid No. 2011-1753



Alternative #1



1 inch = 5,000 feet

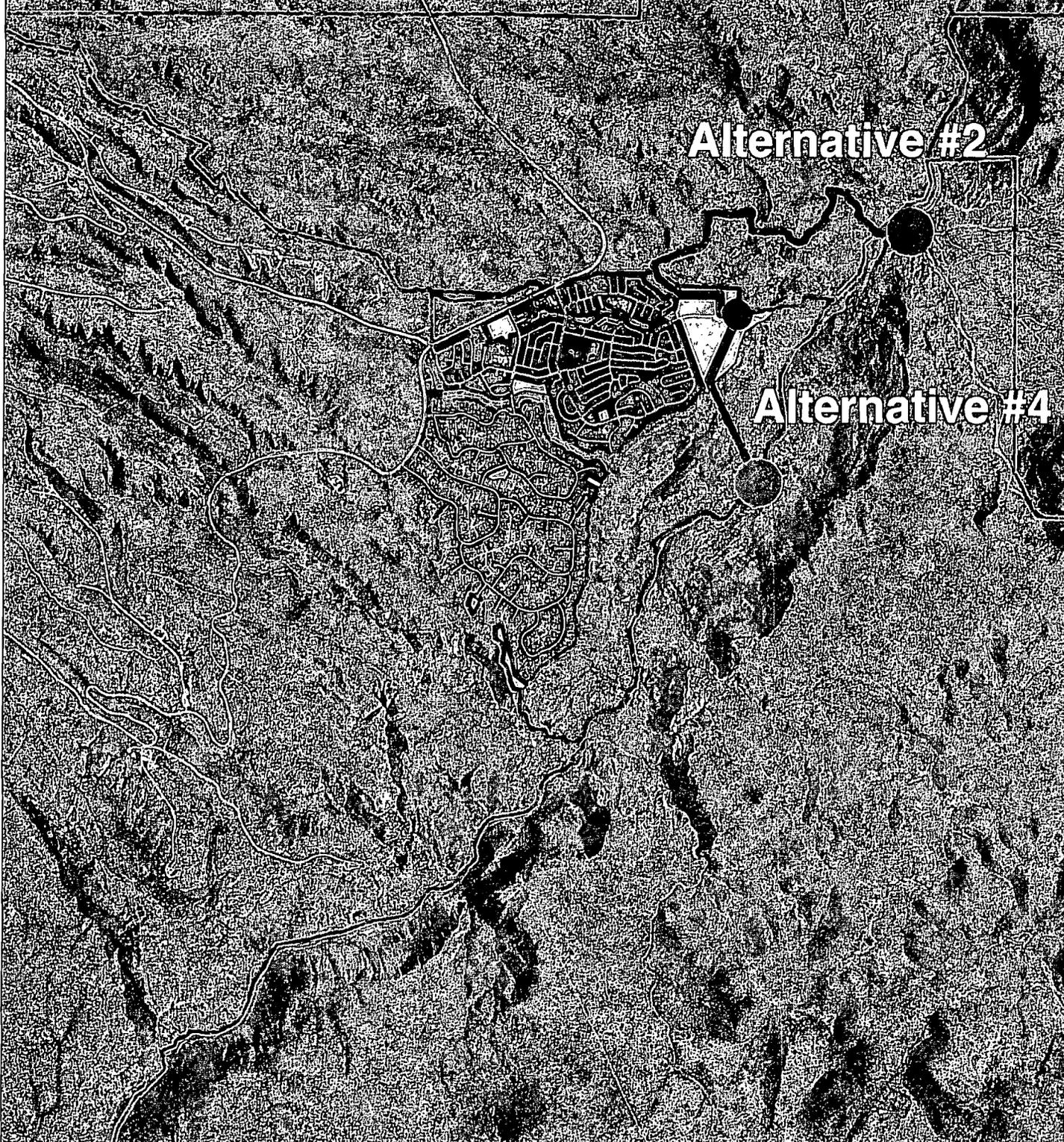


Legend

- LAND OWNERSHIP**
- SANTA FE NATIONAL FOREST
 - COUNTY
 - BUREAU OF INDIAN AFFAIRS

- Water Pipe Alignment
- Point of Diversion
- Point of Delivery

**Area Map: San Juan - Chama Water Supply
 Incorporated County of Los Alamos
 Request for Proposal Bid No. 2011-1753**

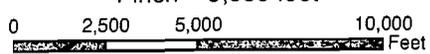


Alternative #2

Alternative #4



1 inch = 5,000 feet

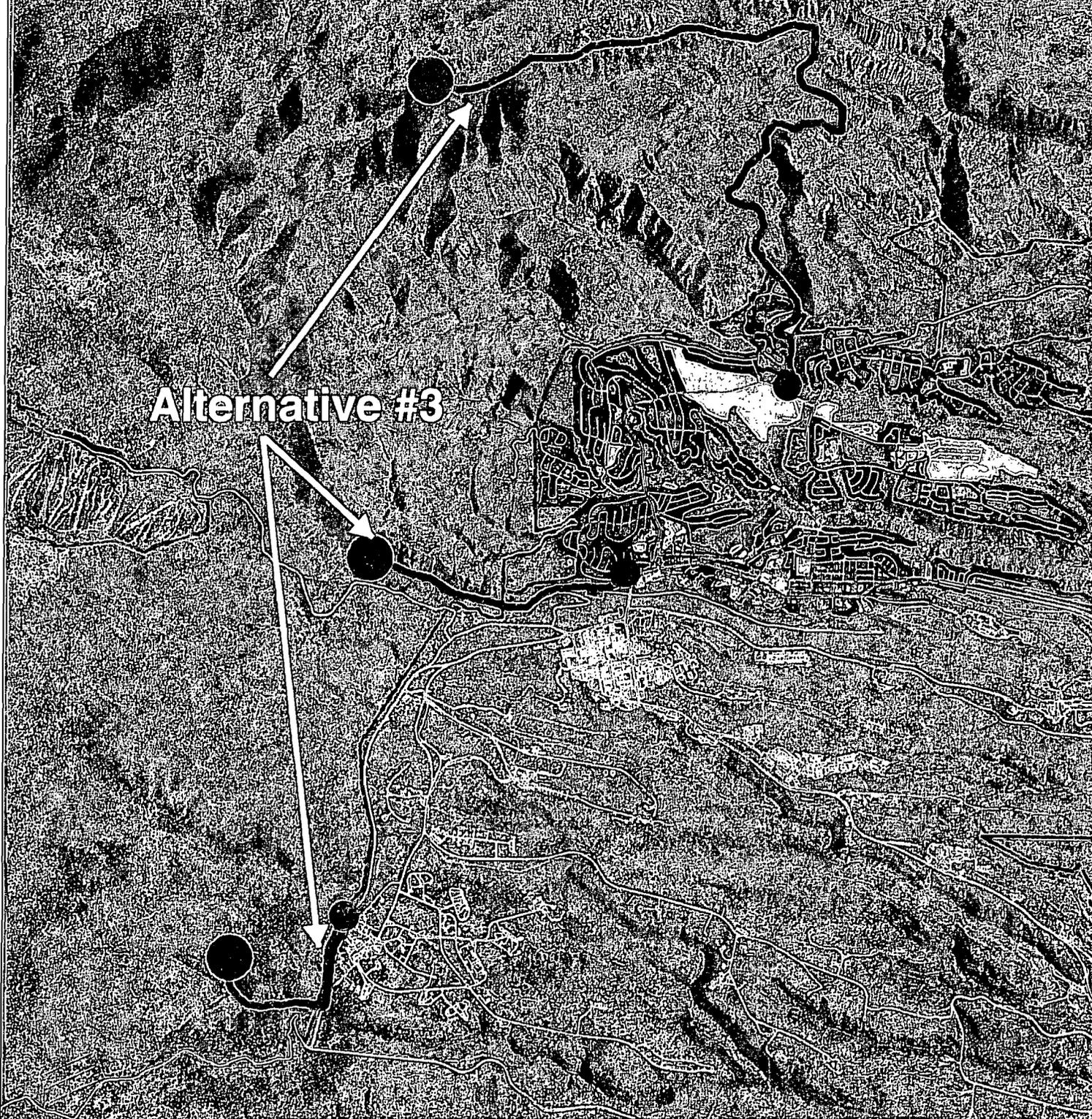


Legend

- LAND OWNERSHIP**
-  SANTA FE NATIONAL FOREST
 -  COUNTY
 -  BUREAU OF INDIAN AFFAIRS

-  Water Pipe Alignment
-  Point of Diversion
-  Point of Delivery

**Area Map: San Juan - Chama Water Supply
 Incorporated County of Los Alamos
 Request for Proposal Bid No. 2011-1753**



Alternative #3



1 inch = 5,000 feet
 0 2,500 5,000 10,000 Feet

Legend
LAND OWNERSHIP
 SANTA FE NATIONAL FOREST
 COUNTY
 BUREAU OF INDIAN AFFAIRS

 Water Pipe Alignment
 Point of Diversion
 Point of Delivery

ATTACHMENT "A"

CAMP DRESSER & McKEE INC.

SCOPE OF SERVICES SAN JUAN-CHAMA PROJECT WATER SUPPLY PRELIMINARY ENGINEERING REPORT

This Contract Attachment further defines the scope of services, fees and schedule for the San Juan-Chama Project Water Supply Preliminary Engineering Report (PER) for Los Alamos County Department of Public Utilities (COUNTY). The COUNTY's Request for Proposals (RFP) dated July 11, 2010 presented a detailed Scope of Work for the San Juan-Chama Project Water Supply PER. The purpose of this scope of services is to provide additional detail and supplement, and to supersede where a conflict exists, the approach to the tasks described in the RFP and CONTRACTOR's August 10, 2010 proposal. This scope of services also presents optional tasks for this project that could be performed with written direction by the COUNTY.

Two previously prepared water supply projects/studies completed by others are relevant to this project; *Long – Range Water Supply Plan*, Daniel B. Stephens & Associates, Inc. (August 2006), and *San Juan/Chama Water Supply Feasibility Study*, Boyle Engineering Corporation (January 2004). The COUNTY is comfortable with the alternatives described in the previous studies; however, there may be some possibility of shared resources with neighboring jurisdictions in developing the COUNTY's 1,200 acre-feet/year of San Juan-Chama Project water. The COUNTY is developing a final evaluation of feasible alternatives through the preparation of a PER. The tasks described herein are intended to build on and supplement the previous feasibility studies to determine an alternative for the COUNTY to fully develop its San Juan-Chama allocation that is in the best interest of the community.

In accordance with the Scope of Work described in the COUNTY's RFP, the CONTRACTOR's Scope of Services is divided into three phases as shown below:

Phase 1: Develop, Analyze & Evaluate Proposed Alternatives

- Task 1 Project Management
 - Subtask 1.1 – Work Plan
 - Subtask 1.2 – Kick-off Meeting
 - Subtask 1.3 – Communications, File Management, Status Reports, Invoicing
- Task 2 Data Acquisition and Review
 - Subtask 2.1 Review Existing Reports
 - Subtask 2.2 Site Visits and Criteria Workshop

- Task 3 Draft Preliminary Engineering Report
 - Subtask 3.1 – Introductory Sections
 - Subtask 3.2 – Development and Analysis of Alternatives
 - Subtask 3.3 – Meetings with County and Stakeholders
 - Subtask 3.4 – Alternative Evaluation
 - Subtask 3.5 – Draft PER

Phase 2: Stakeholder Discussion and Negotiations

Phase 3: Final Preliminary Engineering Report

Optional Tasks

- Task 4 Define Alluvial Thickness, Extent, and Hydraulic Properties at Site A
- Task 5 Additional Water Quality Sampling

Each task is described in detail below. Optional tasks are included at the end of the scope of services.

SCOPE OF SERVICES

PHASE 1 DEVELOP, ANALYZE & EVALUATE THE PROPOSED ALTERNATIVES

TASK 1 PROJECT MANAGEMENT

Subtask 1.1 Work Plan

CONTRACTOR will develop a project work plan for the project. The work plan will include the detailed technical approaches that will be followed as well as the project schedule, and the procedures methods and time frames for completing the project. CONTRACTOR will transmit a draft project work plan to the COUNTY for review and comment. CONTRACTOR will incorporate COUNTY comments and transmit five (5) copies to the COUNTY.

Assumptions:

- CONTRACTOR to develop draft work plan within 2 weeks of Notice to Proceed
- COUNTY provides CONTRACTOR with written comments on draft work plan within 2 weeks.
- CONTRACTOR to incorporate COUNTY’s comments and finalize work plan and submit to COUNTY within 2 weeks of receipt of comments.

Deliverables:

- Draft and Final Work Plan

Subtask 1.2 Kick-Off Meeting

CONTRACTOR will conduct a Project Kick-off Meeting with the COUNTY to discuss the project work plan, scope, schedule, and budget, and major deliverable dates. In addition, CONTRACTOR will obtain additional project information from the COUNTY. The kick-off meeting will be attended by CONTRACTOR's project manager, technical project manager, and one member of the subconsultant staff. CONTRACTOR will prepare an agenda and a meeting summary.

Deliverables:

- Meeting Agenda and Meeting Summary

Subtask 1.3 Meetings, Communications, File Management, Status Reports, Invoicing

CONTRACTOR will prepare monthly progress reports to keep the COUNTY informed of the Project's progress. The CONTRACTOR's Progress reports, to be discussed at a monthly meeting if requested by the COUNTY, will include: work completed since last report, proposed upcoming work, budget status, issues and concerns, and schedule status.

Other project management responsibilities to be completed under this task include management of subcontractors, project accounting, scheduling and budget tracking, and development and maintenance of project files.

Deliverables:

- Monthly Progress Reports – delivered via e-mail
- Monthly Invoices for CONTRACTOR's services

TASK 2 DATA ACQUISITION AND REVIEW

Subtask 2.1 Review Existing Reports and Studies

Prior to the Project Kick-off Meeting, COUNTY will provide CONTRACTOR with existing information on the existing water system. This data will include but not be limited to: as-built drawings, pumping records, pipeline sizes and locations, O&M records, the most recent water quality data (LAC Utilities and current non-potable Jemez Range runoff for Water, Los Alamos, and Guaje Canyons), locations of Potential Release Sites (PRS) and other LANL legacy information. Data will be submitted in electronic form (AutoCAD, GIS) or hard copies. The CONTRACTOR will copy and distribute information to the Project Team and will review the information for completeness, additional information needs, and for incorporation into the Draft Initial Phase 1 PER.

This subtask will also be used to review the existing information and help identify other information that may be needed, but is not available, for development elsewhere in this scope of work.

Assumptions:

- COUNTY will provide all known and available existing water system information as described above as requested by CONTRACTOR. COUNTY cannot guarantee that all information requested by the CONTRACTOR exists or is available. Development of data that is unavailable is the responsibility of the CONTRACTOR if anticipated in CONTRACTOR's fee proposal, or will be deferred to preliminary engineering, as mutually agreed by CONTRACTOR and COUNTY.

Deliverables:

- Memorandum from CONTRACTOR detailing information provided by COUNTY and an assessment of the completeness and need for additional information.

Subtask 2.2 Site Visits and Criteria Workshop

Under this subtask, the CONTRACTOR will perform site visits and develop the alternative evaluation criteria jointly with the COUNTY. This subtask will be conducted over a three day period following the Project Kick-Off Meeting. The proposed sequence of event for this subtask are as follows:

- Day 1 – Site visits with CONTRACTOR and COUNTY staff.
- Day 2 – Complete site visits with COUNTY Staff
- Day 3 – Full-day workshop with COUNTY to define and weight evaluation criteria and identify alternatives

The CONTRACTOR and members of the COUNTY's staff will visit proposed water source locations for each alternative, likely conveyance routes, facility locations, and potential water system tie-in locations for each alternative. It is anticipated that the site visit may take more than 1 day due to difficulty accessing sites along the Rio Grande. Upon completion of the site visits, the CONTRACTOR's team will take advantage of the information and ideas generated from the site visit to develop alternative evaluation criteria and will conduct a full-day workshop with the COUNTY to develop evaluation criteria for the proposed alternatives. It is anticipated that this process will facilitate the early evaluation/fatal flaw analysis of all alternatives and will also allow the CONTRACTOR and COUNTY to fully define the alternatives that will be evaluated in the Draft Initial Phase I PER.

Assumptions:

- COUNTY will attend site visits with CONTRACTOR
- Site visits will be conducted over 2 days due to difficulty accessing sites along the Rio Grande.
- COUNTY will provide access to CONTRACTOR to visit COUNTY facilities and will obtain permission and access for CONTRACTOR to visit sites on private property or land.
- One full-day workshop with COUNTY at COUNTY offices to discuss evaluation criteria and alternatives.
- Site visits will be conducted by four of the CONTRACTOR's staff (Project Manager, Technical

Project Manager, Permitting/Environmental Specialist, Staff Engineer) along with three subconsultant staff from the project team.

- CONTRACTOR will coordinate transportation for site visits.
- If the CONTRACTOR determines that additional site visits are necessary they shall be completed within the scope of the base proposal.

Deliverables:

- Site Visit and Workshop Summary Memorandum.

TASK 3 DRAFT PRELIMINARY ENGINEERING REPORT (PER)

Subtask 3.1 Introductory Sections

Using the existing studies and information provided by the COUNTY, the CONTRACTOR will prepare the introductory sections of the PER in accordance with the format guidelines developed by the USDA/RUS Bulletin 1780-2. Introductory sections of the PER will provide required background information for the project such as population projections, environmental concerns, description of the existing water system, and the need for the project.

Subtask 3.2 Development and Analysis of Project Alternatives

The COUNTY has developed four alternatives and the CONTRACTOR has developed a fifth alternative that are believed to be the most feasible for developing the COUNTY's San Juan-Chama Project water. These alternatives are described in detail in the RFP and the CONTRACTOR's proposal. Based on the results of the Alternative Evaluation Criteria Development process in Subtask 2.2, the CONTRACTOR will evaluate the selected alternatives in accordance with the COUNTY's RFP and the CONTRACTOR's Proposal.

Assumptions:

- No more than five alternatives will be formally evaluated. Reasonable effort to develop and evaluate potential alternate versions of each alternative (initiated by CONTRACTOR and/or COUNTY) as would ordinarily be performed as part of a PER has been included in the base proposal scope of work. If a fatal flaw occurs early in the alternative development/evaluation process for any particular alternative then the level of effort for that alternative will be applied to the development and evaluation of alternate versions of the remaining viable alternatives.

Deliverables:

- None. All work performed in this process will be used to develop the Draft Initial Phase 1 PER.

Subtask 3.3 Meetings with County and Stakeholders

Under this subtask, the CONTRACTOR will coordinate, manage, and attend all meetings with outside governmental agencies and COUNTY staff as well as adjoining jurisdictions as determined jointly by the COUNTY and the CONTRACTOR that are necessary for completion of the of the Phase 1 (Draft PER) work.

The COUNTY shall assist the CONTRACTOR with coordination of meetings with outside jurisdictions if such meetings are necessary.

Assumptions:

- Four half-day Phase 1 meetings with the COUNTY and stakeholders to be attended by the appropriate members of the CONTRACTOR's team, plus the facilitator (if requested by the COUNTY), are assumed for the scope of work. If additional meetings are required during Phase 1, and COUNTY and CONTRACTOR agree to work together to minimize such additional meetings, such meetings as follow up meetings or an initial formal meeting of introduction with the Pueblo Governor and Council shall be included within the base proposal scope of work.

Subtask 3.4 Alternatives Evaluation

CONTRACTOR will perform evaluations of five alternatives as described in Subtask 2.2, the COUNTY's RFP and the CONTRACTOR's proposal.

Alternatives Evaluation

CONTRACTOR will conduct alternative comparison and ranking methodology using Multi-Attribute Rating Technique (MART) principles, in which a numerical score is assigned for each criterion for all alternatives. The scores are then weighted and summed and the overall weighted scores determine the ranking. The numerical scores will be derived from the advantages and disadvantages matrix, after establishing a specific measurement scale for each criterion.

MART allows for the use of both, quantitative criteria (such as costs, in dollars) and qualitative criteria (such as unitless scores for criteria difficult to quantify). To develop the list of these criteria, CONTRACTOR will conduct a full-day workshop with the COUNTY as described in Subtask 2.2 in which the evaluation criteria will be defined and weighted.

CONTRACTOR will utilize the ranking software Criterium Decision Plus (CDP) to process the alternative comparisons. CDP can standardize scores in different units (e.g., linear feet, dollars, unitless, etc.) and provide an overall weighted score. CONTRACTOR will conduct a sensitivity analyses on all of the different values (criteria weights, performance, and satisfaction levels).

A full day workshop will be held with the COUNTY's staff to review the evaluations, ranking of the alternatives and to obtain comments and input on the recommended project alternative. The goal of the workshop will be to obtain consensus for a recommended project alternative.

Assumptions:

- One full-day workshop will be held to review CONTRACTOR's evaluations and recommendations at COUNTY's office.

Deliverables:

- Workshop materials, Agenda and Summary.

Subtask 3.5 Draft Phase I Preliminary Engineering Report

Under this subtask, CONTRACTOR will complete a Draft Phase 1 PER following RUS 1780-2 format and will include the information required in the detailed Scope of Work described in the COUNTY's RFP. The results of the Alternatives Evaluation described in subtask 3.4 will also be included in the Draft PER.

The CONTRACTOR will present the Draft Initial Phase 1 PER to the COUNTY in a Workshop (draft review report meeting) The Draft Initial Phase 1 PER will be submitted to the COUNTY for review no later than two weeks prior to the COUNTY draft review meeting.

Assumptions:

- The draft report review meeting will be held at COUNTY's office.
- The COUNTY will provide written review comments on the Draft Initial Phase 1 PER 2 weeks after the draft review report meeting.
- The CONTRACTOR will incorporate all agreed upon COUNTY review comments and prepare a final Draft Phase 1 PER 2 weeks after receipt of COUNTY'S comments on the Draft Initial Phase 1 PER.
- Ten copies of the Final Draft Phase 1 PER will be provided by the CONTRACTOR. The Draft Phase 1 PER shall be delivered bound in a 3-ring binder with color maps and slides. A PDF copy of the Draft Phase 1 PER will also be provided to the COUNTY.

Deliverables:

- Draft Initial Phase 1 PER.
- Final Phase 1 PER.

PHASE 2 ASSIST THE COUNTY IN MEETINGS, DISCUSSIONS, AND NEGOTIATIONS WITH STAKEHOLDERS

As described in COUNTY's RFP, and the CONTRACTOR's proposal, CONTRACTOR will assist the COUNTY during discussion and negotiations with adjoining jurisdictions. The purpose of the meetings is to discuss and negotiate easement and ROW acquisition, facility shared use rights, environmental clearances, and permit approvals required for construction, start-up, and operation of the COUNTY's San Juan-Chama Project Water supply project.

Subtasks have not been included for this Phase as they are described adequately in the COUNTY's RFP and the CONTRACTOR's proposal.

The COUNTY's anticipated outcome of the Phase 2 effort is to have successfully completed negotiations including enforceable signed documents regarding shared use of facilities and acquisition of easements and right-of-way. The effort will allow the COUNTY to select a final alternative that does not adversely affect

adjoining jurisdictions and/or has the required easements and right-of-way to allow the alternative to proceed in a cost effective manner.

Adjoining jurisdictions that are anticipated to participate in meetings and/or negotiations are;

- Pueblo de San Ildefonso
- Buckman Direct Diversion Board
- City and County of Santa Fe
- U.S. Army Corps of Engineers
- U.S. Forest Service
- Bureau of Reclamation
- State of New Mexico
- Department of Energy/Los Alamos National Laboratory

This assistance will include the following:

- Attendance at meetings
- Providing support materials for meetings (maps, poster boards, displays)
- Updating spreadsheets/modifying cost estimates based on results from meetings
- Assisting COUNTY in determining final selected alternative

As described in the CONTRACTOR's proposal, the CONTRACTOR's team includes an experienced facilitator who can assist the COUNTY with stakeholder meetings. Based on conversations with the COUNTY's staff, the services of the facilitator will only be used as requested by the COUNTY.

This task will be performed on a time and materials basis with a not-to exceed amount.

PHASE 3 FINALIZE PRELIMINARY ENGINEERING REPORT

As described in COUNTY's RFP, and the CONTRACTOR's proposal, CONTRACTOR will complete the final PER document recommending the selected final alternative. The CONTRACTOR will also complete 10% level preliminary design drawings and specifications for the selected final alternative's unique materials and equipment.

Subtasks have not been included for this Phase as they are described adequately in the COUNTY's RFP and the CONTRACTOR's proposal.

CONTRACTOR will provide to COUNTY an outline of the Draft Phase 3 PER document and a list of any additional information not included in the Final Phase 1 PER that is required for the completion of the Final PER.

CONTRACTOR will present the Draft Phase 3 PER to the COUNTY in a Workshop (draft review report meeting). The Draft Phase 3 PER will be submitted to the COUNTY for review no later than 2 weeks prior to the COUNTY draft review meeting.

CONTRACTOR will present the Final Phase 3 PER to the Utility Board and County Council at separate meetings. The CONTRACTOR will develop and prepare all visuals (power point presentations, boards, maps, etc.) required for the presentations.

Assumptions:

- The draft report review meeting will be held at COUNTY's office.
- One presentation to the Utility Board and one presentation to the County Council at separate meetings.
- The COUNTY will provide written review comments on the Draft Phase 3 PER 2 weeks after the draft review report meeting.
- The CONTRACTOR will incorporate all agreed upon COUNTY review comments and prepare a final PER 2 weeks after receipt of COUNTY'S comments on the Draft Phase 3 PER.
- Ten copies of the Final PER will be provided by the CONTRACTOR. The Final PER shall be delivered bound in a 3-ring binder with color maps and slides. A PDF copy of the Final PER will also be provided to the COUNTY.

Deliverables:

- Outline of Draft Phase 3 PER.
- Draft Final Phase 3 PER.
- Final Phase 3 PER.

OPTIONAL TASKS

Final scope of services and budgets for optional tasks is to be provided and approved by COUNTY if and when it is determined that the following tasks are needed.

OPTIONAL TASK A WATER QUALITY ANALYSIS

Obtain additional water quality testing as appropriate based on results of Subtask 2.1 (Review of Existing Reports and Studies), and as needed by the results of the alternatives evaluation.

CONTRACTOR will develop a testing plan to supplement the COUNTY's existing water quality data and process testing data. Based on the testing plan, the CONTRACTOR will obtain water samples, transmit to water quality testing laboratory, and evaluate results.

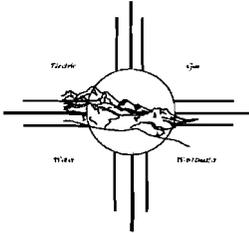
BUSINESS

Los Alamos Reservoir Project Update

Presenter: Tim Glasco

AGENDA DOCUMENTATION

BOARD OF PUBLIC UTILITIES



Date: October 20, 2010

Presenter: Tim Glasco

SUBJECT

Update on Los Alamos Canyon Dam Restoration Project

BACKGROUND

The Los Alamos Canyon dam sustained damage resulting from the Cerro Grande Fire in 2000. After the watershed was substantially healed, a project to repair the dam was begun in 2005. After numerous iterations of review from the New Mexico State Engineer (NMOSE) Office of Dam Safety, a permit was granted on October 7, 2010 for the repair work. As the dam is located on property of the U.S. Forest Service a special use permit is required. Work to satisfy the requirements of the National Environmental Policy Act (NEPA) began in 2008, with creation of an Environmental Assessment (EA). The EA was advertised for public comment in 2009 with only three comments being received. The only comment with any substance was one from the National Audubon Society expressing concern for nesting turkey vultures in the canyon. This concern was addressed in the Decision Notice and Finding of No Significant Impact that was signed by the U.S. Forest Service on October 7, 2010. Publication of the Decision Notice in the newspaper is scheduled for October 20th, with a subsequent 45 day appeals period. When the appeals period runs out on December 4th, the Special Use permit can be signed by the U.S. Forest Service.

The construction project has been put out to bid, with a current bid opening date scheduled for December 7, 2010. Current plans are to issue an addendum containing any special provisions of the USFS permit by two weeks prior to the bid opening. So far there has been substantial interest from contractors in the project.

The County previously had arranged for \$500K of Water Trust Board funding for this project. With delays in approval of the design report, this funding expired. The Water Trust Board invited the County to reapply for funding after all the permits are in place. A funding application was submitted on October 15th to the Water Trust Board requesting \$1.5 million dollars. Total construction cost is estimated to be \$3.2 million dollars. Design, permitting and environmental studies costs to date have been slightly under \$500,000, bringing the total project estimated cost to \$3.7 million. If the Water Trust Board awards the full amount of funding for this project, the County's share will be \$2.2 million. The County Council has indicated a willingness to fund the entire project if Water Trust Board funding does not materialize.

ATTACHMENTS

No attachments.

FISCAL IMPACT

No fiscal impact.

STAFF IMPACT

No staff impact.

STAFF RECOMMENDATION

No Staff recommendation.

SUGGESTED MOTION

No suggested motion.

TICKLER FILE

Board of Public Utilities Tickler File

ITEM NO.	MEETING DATE	SUBJECT	REQUESTER
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

STATUS REPORT

Diamond Drive Phase 4 and Phase 5



DIAMOND DRIVE UTILITIES PROJECT PHASE 4

Utilities Project Manager:	Donald Houser	Contractor:	A.S. Horner, Inc
		Utilities Subcontractor:	K.R. Swerdfeger, Inc
Scheduled Budget:	\$ 1,500,091	Period:	September 7, 2010 to October 12, 2010
Estimated Earned:	\$ 1,398,891		
Revised Budget Est:	\$1,600,000		
Total Budget	\$1,838,669		

Work Accomplished During This Month:

Contractor has installed all utilities and is finishing up punch list items.

Work Planned for Next Month:

Contractor plans to finish all work October 15, 2010. The Electric work by County Electric Operations will continue.

Schedule Analysis:

The first milestone contract date for paving from Ridgeway to South of Sandia Station 29+00 was August 16, 2010. The traffic signals were late to be delivered and were not installed prior to August 16, 2010. The Contractor ordered the signals in a timely manner. The traffic signals will be moved to Milestone B by change order. The Milestone B work is nearly complete. Contractor has requested a 4 week extension because of a storm drain that was not sized adequately in the plans, had to be redesigned, and required additional work. Significant flooding of the roadway occurred and utility work, paving, and concrete work were delayed. The Change Review Board will consider the Contractor's request for additional time.

Concerns/Issues:

Quantities for excavation and backfill are running less than estimated and the final cost for utilities should be less than the budget.

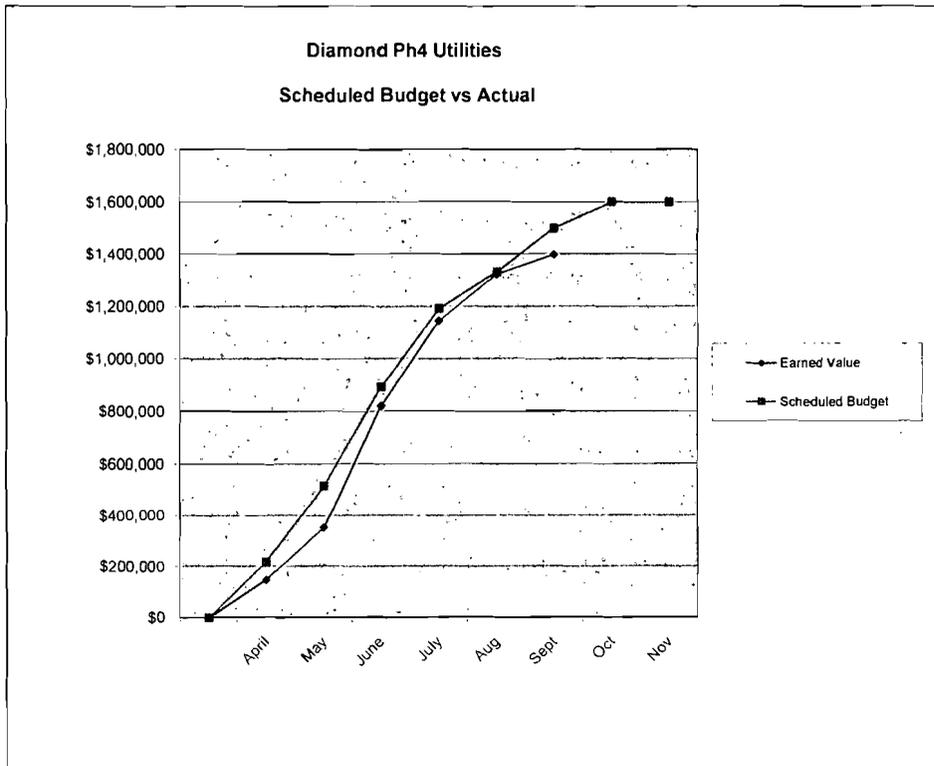
**COUNTY OF LOS ALAMOS
DEPARTMENT OF PUBLIC UTILITIES**

**DIAMOND DRIVE UTILITIES PROJECT PHASE 4 (COST FOR UTILITIES ONLY)
PROGRESS REPORT
September 7, 2010 to October 12, 2010**

10/14/2010

Items	Description	Percent Earned	Percent Scheduled	Budget	Estimated	Value Scheduled	SPI	Notes
					Value Earned			
		P/B	S/B	B	P	S	P/S	
49-52	Mobilization/Traffic Control/Staking	100.0%	100.0%	150,000	150,000	150,000	1.0	
1-4	Trenching & Backfill	70.0%	100.0%	304,000	212,800	304,000	0.7	Quantities less than estimated
5-7	Trench Paving	100.0%	100.0%	39,150	39,150	39,150	0.0	
8-22	Water Pipe Installation	100.0%	100.0%	313,760	313,760	313,760	1.0	
23-33	Effluent Water Pipe Installation	100.0%	100.0%	184,770	184,770	184,770	1.0	
34-40	Ductbank Installation	100.0%	100.0%	132,545	132,545	132,545	1.0	
41-43	Electric Appurtenances	100.0%	100.0%	118,900	118,900	118,900	1.0	
44-46	Communication Appurtenances	100.0%	100.0%	30,000	30,000	30,000	1.0	
47-48	Retirements	100.0%	100.0%	7,500	7,500	7,500	0.0	
	Subtotal	92.9%	100.0%	1,280,625	1,189,425	1,280,625	0.9	
	Change Order 2	100.0%	100.0%	9,636	9,636	9,636	1.0	Change to 8" DI & 1" Copper Pipe in Sandia
	Change Order 4	100.0%	100.0%	6,248	6,248	6,248	1.0	Lost Time Costs for Mislocated Water Line Break
	Projected Contractor Total	93.0%	100.0%	1,296,509	1,205,309	1,296,509	0.9	
	Electric Materials & LACU Labor	35.0%	35.0%	175,950	61,583	61,583	1.0	Work to Be Done after Conduits are Complete
	Coordination w Rd Design Engineering	40.0%	60.0%	50,000	20,000	30,000	0.7	Coordination will increase
	Inspection/Testing	80.0%	80.0%	140,000	112,000	112,000	1.0	
	Total	84.1%	90.2%	1,662,459	1,398,891	1,500,091	0.9	
	Contingency			176,210				
	Project Total	76.1%	81.6%	1,838,669	1,398,891	1,500,091	0.9	

Earned Scheduled Budget Earned Scheduled





DIAMOND DRIVE UTILITIES PROJECT PHASE 5

Utilities Project Manager: **Donald Houser** Contractor: **Paul Parker Construction**

Scheduled Budget:	\$ 988,974	Period Ending:	October 12, 2010
Estimated Earned:	\$ 902,343		
Total Est Cost	\$1,000,000		
Total Budget:	\$1,196,851		

Work Accomplished During This Month:

Contractor was issued the Notice to Proceed on May 1, 2010. Contractor has completed all utility installation and was substantially complete on September 24, 2010.

Work Planned for Next Month:

Contractor plans to complete remaining punch list items of reseeding and complete demobilization.

Schedule Analysis:

The Contractor is ahead of schedule. Final Completion Date is November 4, 2010

Concerns/Issues:

Excavation quantities are less than estimated. Project final cost should be less than the estimated budget.

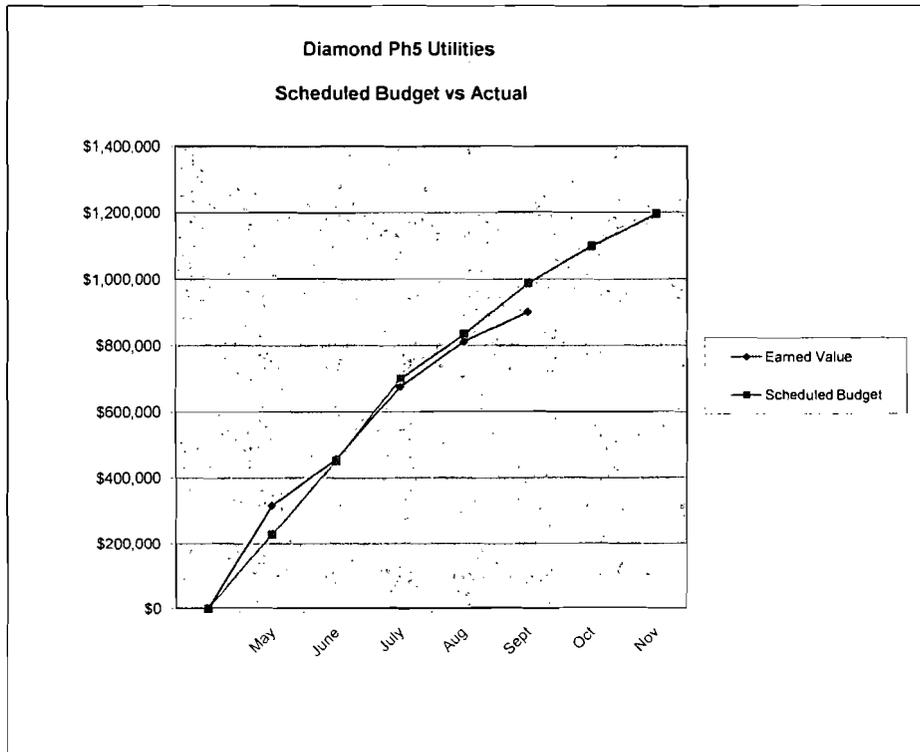
**COUNTY OF LOS ALAMOS
DEPARTMENT OF PUBLIC UTILITIES**

**DIAMOND DRIVE UTILITIES PROJECT PHASE 5 (COST FOR UTILITIES ONLY)
PROGRESS REPORT
September 9, 2010 to October 12, 2010**

10/14/2010

Items	Description	Percent Earned	Percent Scheduled	Budget	Estimated Value		SPI	Notes
					Earned	Scheduled		
		P/B	S/B	B	P	S	P/S	
49-52	Mobilization/Traffic Control/Staking	90.0%	90.0%	67,465	60,719	60,719	1.0	
1-4	Trenching & Backfill	75.0%	100.0%	155,226	116,420	155,226	0.8	Quantities less than estimated
5-7	Trench Paving	100.0%	100.0%	18,042	18,042	18,042	0.0	
8-22	Water Pipe Installation	100.0%	100.0%	160,543	160,543	160,543	1.0	
23-33	Effluent Water Pipe Installation	100.0%	100.0%	91,361	91,361	91,361	0.0	
34-40	Ductbank Installation	100.0%	100.0%	51,282	51,282	51,282	0.0	
41-43	Electric Appurtenances	100.0%	100.0%	216,510	216,510	216,510	0.0	
44-46	Communication Appurtenances	100.0%	100.0%	20,964	20,964	20,964	0.0	
	Subtotal	94.2%	99.1%	781,392	735,839	774,646	0.9	
	Change Order #1	100.0%	100.0%	1,492	1,492	1,492	1.0	Fire Hydrant Extension
	Change Order #2	100.0%	100.0%	-12,886	-12,886	-12,886	1.0	Change Water Line Insitu to Trenching
	Change Order #3	100.0%	100.0%	50,698	50,698	50,698	1.0	2 water services & riprap erosion control
	Change Order #4	100.0%	100.0%	25,375	25,375	25,375	1.0	Early Finish Incentive
	Projected Contractor Total	94.6%	99.2%	846,071	800,518	839,324	1.0	
	Electric Materials & LACU Labor	10.0%	20.0%	178,250	17,825	35,650		Electric Materials Not Received
	Inspection/Testing	70.0%	95.0%	120,000	84,000	114,000	0.7	Inspection Costs running less than estimate
	Total	78.9%	86.4%	1,144,321	902,343	988,974	0.9	
	Contingency			52,530				
	Project Total	75.4%	82.6%	1,196,851	902,343	988,974	0.9	

Earned Scheduled Budget Earned Scheduled



Los Alamos County Utilities



Electric Distribution

Reliability

October 20, 2010

Stephen Marez
Associate Engineer

Electric Distribution Reliability Study
Twelve Month Outage History

Prepared by Stephen Marez
Electrical Engineer L.A.C.U.

Date	Call Rcd.	Circuit	Cause	Start Time	End Time	Duration	Customers Affected (Meters)	Combined Customer Outage Durations	Total Outage H:M:S	Running SAIDI
10/2/2009	Dispatch	14	URD Failure	15:30	18:30	3:00	3	9:00:00	9:00:00	0:00:04
10/3/2009	LAPD	EA4	OH Failure	13:12	14:53	1:41	2	3:22:00	12:22:00	0:00:05
10/20/2009	Dispatch	15	Weather	20:31	20:40	0:09	1498	224:42:00	237:04:00	0:01:36
10/20/2009	Dispatch	WR1	OH Failure	19:10	20:17	1:07	1	1:07:00	238:11:00	0:01:37
11/4/2009	Utilities	14	URD Failure	14:19	14:24	0:05	549	45:45:00	283:56:00	0:01:55
11/12/2009	Utilities	14	URD Failure	10:00	14:30	4:30	2	9:00:00	292:56:00	0:01:59
11/26/2009	Dispatch	14	Animal	2:47	7:20	4:33	5	22:45:00	315:41:00	0:02:08
12/8/2009	Dispatch	16	Weather	5:07	8:00	2:53	1050	3027:30:00	3343:11:00	0:22:40
12/8/2009	Dispatch	16	Weather	5:07	8:30	3:23	679	2297:17:00	5640:28:00	0:38:14
12/8/2009	Dispatch	Royal Crest	Weather	4:30	9:30	5:00	175	875:00:00	6515:28:00	0:44:10
12/8/2009	Dispatch	13	Weather	8:00	10:00	2:00	10	20:00:00	6535:28:00	0:44:18
12/8/2009	Dispatch	14	Weather	2:30	3:30	1:00	8	8:00:00	6543:28:00	0:44:22
12/9/2009	Dispatch	16	OH Failure	1:00	3:15	2:15	5	11:15:00	6554:43:00	0:44:26
12/9/2009	Dispatch	15	OH Failure	1:00	3:15	2:15	5	11:15:00	6565:58:00	0:44:31
12/11/2009	Utilities	16	Animal	9:41	10:14	0:33	679	373:27:00	6939:25:00	0:47:03
12/11/2009	Utilities	16	Animal	9:41	11:00	1:19	1050	1382:30:00	8321:55:00	0:56:25
1/9/2010	Dispatch	13	URD Failure	2:27	4:30	2:03	950	1947:30:00	10269:25:00	1:09:37
1/9/2010	Dispatch	14	URD Failure	2:38	2:43	0:05	550	45:50:00	10315:15:00	1:09:56
2/4/2010	Dispatch	13	Weather	9:28	9:45	0:17	8	2:16:00	10317:31:00	1:09:57
2/25/2010	Dispatch	WR1	URD Failure	19:00	21:20	2:20	2	4:40:00	10322:11:00	1:09:59
2/27/2010	Dispatch	16	URD Failure	15:30	16:35	1:05	2	2:10:00	10324:21:00	1:10:00
3/16/2010	Dispatch	16	Unknown	17:00	21:30	4:30	4	18:00:00	10342:21:00	1:10:07
3/18/2010	Dispatch	15	HUMAN	15:30	17:00	1:30	4	6:00:00	10348:21:00	1:10:09
3/22/2010	Dispatch	15	Unknown	12:00	14:00	2:00	6	12:00:00	10360:21:00	1:10:14
4/22/2010	Dispatch	18	LANL LINE	5:30	6:20	0:50	25	20:50:00	10381:11:00	1:10:23
4/22/2010	Dispatch	14	URD Failure	11:30	14:00	2:30	51	127:30:00	10508:41:00	1:11:15
4/22/2010	Dispatch	14	URD Failure	11:30	15:45	4:15	31	131:45:00	10640:26:00	1:12:08
5/8/2010	Dispatch	16	URD Failure	2:00	6:30	4:30	45	202:30:00	10842:56:00	1:13:31
5/9/2010	Dispatch	14	URD Failure	14:00	17:30	3:30	42	147:00:00	10989:56:00	1:14:30
5/9/2010	Dispatch	14	URD Failure	8:30	17:30	9:00	34	306:00:00	11295:56:00	1:16:35

<u>Date</u>	<u>Call Rcd.</u>	<u>Circuit</u>	<u>Cause</u>	<u>Start Time</u>	<u>End Time</u>	<u>Duration</u>	<u>Customers Affected (Meters)</u>	<u>Combined Customer Outage Durations</u>	<u>Total Outage H:M:S</u>	<u>Running SAIDI</u>
6/2/2010	Dispatch	16	URD Failure	2:00	3:10	1:10	8	9:20:00	11305:16:00	1:16:39
6/2/2010	Dispatch	16	URD Failure	2:00	3:30	1:30	48	72:00:00	11377:16:00	1:17:08
6/15/2010	Utilities	WR2	URD Failure	8:35	9:55	1:20	17	22:40:00	11399:56:00	1:17:17
6/27/2010	Dispatch	15	OH Failure	11:30	17:25	5:55	10	59:10:00	11459:06:00	1:17:41
7/4/2010	Dispatch	14	URD Failure	6:00	10:30	4:30	4	18:00:00	11477:06:00	1:17:49
7/3/2010	Dispatch	16	Weather	16:00	21:30	5:30	5	27:30:00	11504:36:00	1:18:00
7/8/2010	Dispatch	WR2	URD Failure	4:00	8:30	4:30	20	90:00:00	11594:36:00	1:18:36
7/15/2010	Dispatch	WR2	URD Failure	5:00	6:30	1:30	20	30:00:00	11624:36:00	1:18:49
7/16/2010	Dispatch	16	URD Failure	14:00	17:00	3:00	115	345:00:00	11969:36:00	1:21:09
7/16/2010	Dispatch	16	URD Failure	19:00	21:00	2:00	8	16:00:00	11985:36:00	1:21:15
7/21/2010	Dispatch	13	Weather	21:30	22:30	1:00	16	16:00:00	12001:36:00	1:21:22
7/22/2010	Dispatch	13	Weather	5:45	9:00	3:15	40	130:00:00	12131:36:00	1:22:15
7/22/2010	Dispatch	13	Weather	20:00	21:00	1:00	1480	1480:00:00	13611:36:00	1:32:17
7/30/2010	Dispatch	16	URD Failure	16:55	21:30	4:35	115	527:05:00	14138:41:00	1:35:51
8/9/2010	Dispatch	EA4	URD Failure	3:50	16:48	12:58	12	155:36:00	14294:17:00	1:36:55
8/9/2010	Dispatch	EA4	URD Failure	3:50	7:40	3:50	8	30:40:00	14324:57:00	1:37:07
8/9/2010	Dispatch	14	HUMAN	4:09	4:25	0:16	800	213:20:00	14538:17:00	1:38:34
8/9/2010	Dispatch	15	Weather	17:30	19:30	2:00	25	50:00:00	14588:17:00	1:38:54
8/15/2010	Dispatch	16	Weather	18:00	22:15	4:15	3500	14875:00:00	29463:17:00	3:19:45
8/17/2010	Dispatch	15	Unknown	15:40	16:45	1:05	25	27:05:00	29490:22:00	3:19:56
8/23/2010	Dispatch	TC1	Weather	16:40	16:48	0:08	3000	400:00:00	29890:22:00	3:22:39
8/29/2010	Dispatch	WRI	OH Failure	21:30	14:00	16:30	1	16:30:00	29906:52:00	3:22:46
8/29/2010	Dispatch	15	Weather	23:12	0:55	1:43	140	240:20:00	30147:12:00	3:24:23
9/2/2010	Dispatch	WR1	URD Failure	3:20	4:14	0:54	42	37:48:00	30185:00:00	3:24:39
9/6/2010	Dispatch	WR1	URD Failure	10:30	18:00	7:30	2	15:00:00	30200:00:00	3:24:45
9/10/2010	Dispatch	13	URD Failure	15:47	17:40	1:53	40	75:20:00	30275:20:00	3:25:15

Twelve Month History	SEPTEMBER 2010	
Total # Accounts	8850	
Total # Interruptions	56	
Sum Customer Interruption Durations	30275:20:00	hours:min:sec
# Customers Interrupted	16976	
SAIFI(APPA AVG. = 1.0)	1.92	int./cust.
SAIDI (APPA AVG. = 1:00)	3:25	hours:min
CAIDI	1:47	hours:min/INT
ASAI	99.9984%	% available

- **SAIFI - System Average Interruption Frequency Index**
A measure of interruptions per customer (Per Year)

$$\text{SAIFI} = \frac{\text{(Total number of customer interruptions)}}{\text{(Total number of customers served)}}$$

- **SAIDI – System Average Interruption Duration Index**
A measure of outage time per customer if all customers were out at the same time (hours per year)

$$\text{SAIDI} = \frac{\text{(Sum of all customer outage durations)}}{\text{(Total number of customers served)}}$$

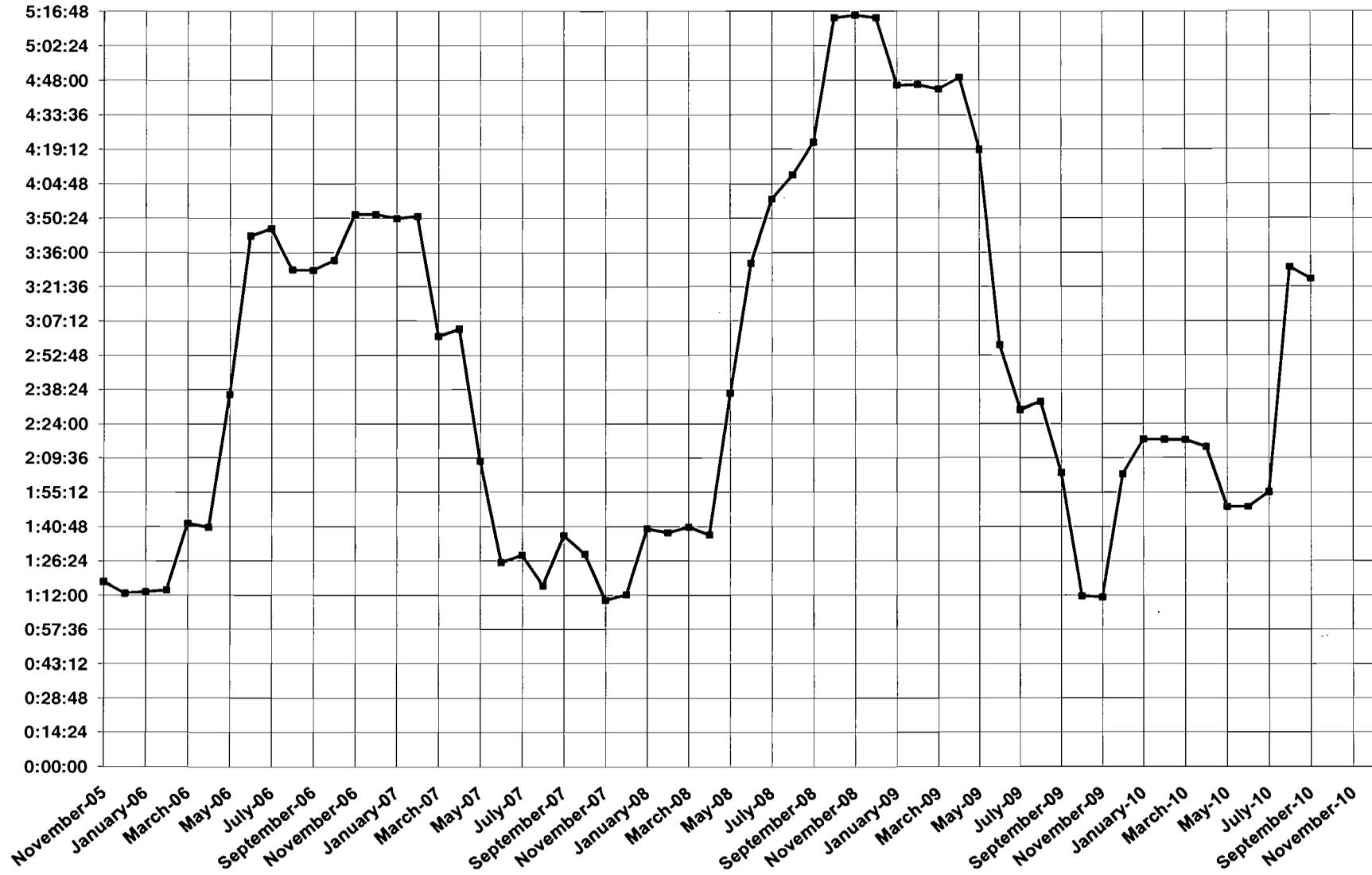
- **CAIDI – Customer Average Interruption Duration Index**
A measure of the average outage duration per customer (hours per interruption)

$$\text{CAIDI} = \frac{\text{(Sum of all customer outage durations)}}{\text{(Total number of customers interruptions)}} = \frac{\text{SAIDI}}{\text{SAIFI}}$$

- **ASAI – Average System Availability Index**
A measure of the average service availability (Per unit)

$$\text{ASAI} = \frac{\text{(Service hours available)}}{\text{(Customer demand hours)}} = \frac{8760 - \text{SAIDI}}{8760}$$

EACH POINT IS A 12 MONTH SAIDI HISTORY
 1:00:00 = APPA BENCHMARK SAIDI



→ SAIDI

STATUS REPORT

Active Receivables Over 90 Days Past Due

**Los Alamos County Utilities Department
Active Receivables Over 90 Days Past Due
October 1, 2010**

Account	Acct Type	Comments	90 - 119	120+
2025631	Commercial	Left message for customer	0.40	-
2073808	Residential	Paid	0.54	-
2014151	Residential	Paid	1.15	-
2021894	Residential	Paid	7.15	-
2023129	Residential	Door tagged	13.97	-
2032868	Residential	Paid	17.30	-
2071678	Residential	Turned off 10/12/10	24.95	-
2025142	Residential	Paid	37.80	-
2036208	Residential	Pay arrangement	60.81	-
2016870	Residential	Called customer, door tag scheduled	62.80	-
2003611	Residential	paid	80.06	-
2015220	Residential	long-term pay arrangement	108.88	-
2034638	Residential	Pay arrangement	113.63	-
2008090	Residential	Made partial payment	115.29	-
2017479	Residential	Door tagged	168.10	-
2063878	Residential	long-term pay arrangement	379.37	-
2014855	Residential	Door tagged	-	2.78
2009142	Residential	Bank file upload error	-	75.62
2009071	Residential	paid	107.77	105.28
2077558	Residential	long-term pay arrangement	-	793.50
2077578	Residential	long-term pay arrangement	22.94	1,124.31
8 accounts	Apartment Landlord	Apt landlord going into foreclosure. Lined. Working with 3rd party co. handling accts. Four of these accounts paid off so far.	2,429.44	4,084.28
Totals			3,752.35	6,185.77
GRAND TOTAL				9,938.12

Los Alamos County Utilities Department
 Inactive Receivables More than 60 Days Past Due*
 October 1, 2010

YEAR	OUSTANDING 10/1	# OF ACCOUNTS	OUSTANDING 9/1	# OF ACCOUNTS
FY06	22,557.41	97	22,813.50	100
FY07	27,227.71	70	27,241.72	71
FY08	15,715.56	73	15,715.56	73
FY09	19,214.96	69	19,218.06	70
FY10	32,295.22	95	34,420.64	103
FY11	1,512.77	10	160.28	2
TOTAL	\$ 118,523.63	414	\$ 119,569.76	419

** In the past, these totals have included final accounts with credits that hadn't been paid back to the customer because the customer could not be found. Because those accounts cannot be written off, they are no longer included in this report.*