



DATE: June 10, 2009
TO: Honorable Mayor and City Councilmembers
FROM: Water Utilities Department
SUBJECT: **ACCEPT \$500,000 IN GRANT FUNDS FROM THE SAN DIEGO COUNTY WATER AUTHORITY LOCAL INVESTIGATIONS AND STUDIES ASSISTANCE PROGRAM FOR THE OCEANSIDE SEAWATER DESALINATION PILOT STUDY AND FEASIBILITY STUDY**

SYNOPSIS

Staff recommends that the City Council accept \$500,000 in grant funds from the San Diego County Water Authority Local Investigations and Studies Assistance Program for the Oceanside Seawater Desalination Pilot Study and Feasibility Study; approve an appropriation of said funds to the Oceanside Seawater Desalination project; and authorize the Mayor to execute the grant agreement (Exhibit A).

BACKGROUND

The Integrated Water Utilities Master Plan identified seawater desalination as one of the major alternatives for meeting future potable water demands. To determine whether seawater desalination is a viable project, a professional services agreement in the amount of \$1,231,000 was approved by the City Council on March 14, 2007, for Tetra Tech, Inc., to install a pilot desalination facility and conduct a feasibility study.

In January 2007, the San Diego County Water Authority (Water Authority) established the Local Investigations and Studies Assistance Program (LISA) for the purpose of facilitating local agency studies and investigations of new local water supply opportunities. The intent of the LISA program is to encourage, through project funding, local brackish groundwater, seawater desalination, recycled water and conjunctive-use studies and investigations that could lead to local water supply projects that provide new annual supplies or increased dry-year supplies. Staff applied for a LISA grant in August 2008. The Water Authority awarded \$500,000 in LISA grant funds to the City on December 18, 2008, for the Seawater Desalination Pilot and Feasibility Study.

ANALYSIS

The Oceanside Seawater Desalination Pilot and Feasibility Study project includes the construction of a boring and monitoring well, a pilot production well and treatment facilities, the completion of a pipeline alignment study, and project feasibility report. The pilot wells are located in the Oceanside Harbor's east parking lot. The pipeline study will determine the most appropriate alignment from the pilot wells location to the existing Mission Basin Desalting Facility where the seawater will be treated and become an additional source of potable water if the project proves to be feasible.

The LISA program funding awarded by the Water Authority is a matching, reimbursable grant. Expenditures are eligible for reimbursement for work performed after December 18, 2008. Eligible expenditures include third party and specialized in-kind costs. The City's expenditures for the work performed by Tetra Tech are eligible for reimbursement. Since December 18, the City has paid \$286,935 to Tetra Tech. The total expenditures since the project began are \$760,666 with \$470,333 remaining of the authorized amount.

FISCAL IMPACT

The \$500,000 from the San Diego County Water Authority Local Investigations and Studies Assistance Program will be deposited to State Grant Fund 272 and appropriated to a new City of Oceanside Seawater Desalination project grant business unit 667390.4456 to reimburse expenditures after December 18, 2008 that have been charged to account 715.858247.5241. To record the grant expenditures in the new business unit 667390, a cost share transfer from fund 715 (875247.8080.00272) to fund 272 (667390.7070.00715) will be made for the eligible reimbursement amount of \$286,935 paid since December 18, 2008. Future transfers will be made as reimbursement requests are submitted. The transfers will not exceed \$500,000.

COMMISSION OR COMMITTEE REPORT

The Utilities Commission reviewed and approved staff's recommendation on May 19, 2009.

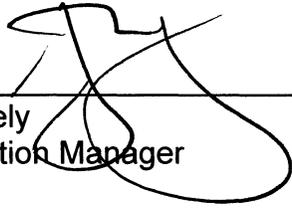
CITY ATTORNEY'S ANALYSIS

The referenced documents have been reviewed by the City Attorney and approved as to form.

RECOMMENDATIONS

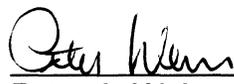
Staff recommends that the City Council accept \$500,000 in grant funds from the San Diego County Water Authority Local Investigations and Studies Assistance Program for the Oceanside Seawater Desalination Pilot Study and Feasibility Study; approve an appropriation of said funds to the Oceanside Seawater Desalination project; and authorize the Mayor to execute the grant agreement.

PREPARED BY:



Greg Blakely
Administration Manager

SUBMITTED BY:



Peter A. Weiss
City Manager

REVIEWED BY:

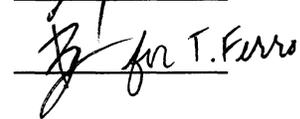
Michelle Skaggs Lawrence, Deputy City Manager

Lonnie Thibodeaux, Water Utilities Director

Teri Ferro, Financial Services Director







for T. Ferro

Exhibit A: Agreement for Local Investigations and Studies Assistance Program Funding

JOINT PARTICIPATION AGREEMENT FOR
LOCAL INVESTIGATIONS AND STUDIES ASSISTANCE PROGRAM FUNDING
BETWEEN
SAN DIEGO COUNTY WATER AUTHORITY
AND
CITY OF OCEANSIDE

THIS AGREEMENT is made this ____ day of _____ between the San Diego County Water Authority (Water Authority), a county water authority and the City of Oceanside (Agency), a municipality, in view of the following facts:

RECITALS

1. In January 2007, the Water Authority established the Local Investigations and Studies Assistance Program (LISA Program), for the purpose of facilitating local agency studies and investigations of new local water supply opportunities.
2. The purpose of the LISA Program is to encourage, through assistance in project funding, local brackish groundwater, seawater desalination, recycled water and conjunctive-use studies and investigations that could lead to local water supply projects that provide new annual core (baseload) supplies or increased dry-year supplies.
3. Funding for this program in the amount of \$2 million is provided by the Water Authority.
4. Studies receiving funding under this Agreement must be related to the production and/or conveyance of recycled water; or the extraction, treatment and/or conveyance of groundwater; or the desalination of seawater and/or conveyance of the product water.
5. Agency is conducting a study and/or investigation entitled: "City of Oceanside Seawater Desalination Pilot Study and Feasibility Study" (Study). The Study will include the construction of an exploratory boring and monitoring well, and pilot production well and treatment facilities; pilot studies; and the completion of an "alignment study" and project feasibility study report. See **Attachment A – Scope of Work** for description of work to be performed under the Study.

The Recitals above are incorporated herein and the Parties agree as follows.

Section 1. Term of Agreement

The term of the Agreement begins at the date of execution of the Agreement and ends three (3) years from the date of execution. The final invoice for reimbursement must be submitted to the Water Authority for approval and payment within three (3) years and three (3) months from the date of the execution of the Agreement.

Section 2. Work to be Performed Under this Agreement

(a) The approved scope of work, schedule, and budget for this Agreement is included as **Attachment A – Scope of Work, Attachment B – Project Schedule, and Attachment C – Project Budget, attached herein and made a part of this Agreement.** Lead agency is responsible for all actions and work performed by Co-applicant with respect to this Agreement.

(b) At the end of the project, Lead Agency shall produce a Final Feasibility Study Report (Report) which will include exploratory boring and pilot test well logs; construction details of the monitoring and pilot test well; and the results of well and aquifer testing, pilot testing, the alignment study, and project feasibility analyses. Lead Agency shall provide the Report to the Water Authority prior to the submittal of its final invoice for reimbursable LISA grant funds.

Section 3. Amount of Funding and Agency Match

On December 18, 2008, the Water Authority Board approved up to \$500,000 in matching LISA Program Grant Funds to be provided to the Agency. Agency match shall be equal to or greater than the total Water Authority award of grant funds under the LISA Program. Agency match must also be equal to or greater than 50 percent of the total study cost. The Lead Agency may designate as reimbursable funds eligible expenditures for work conducted by the Lead Agency after the date of the board approval of funding, December 18, 2008.

The Agency may designate as matching funds eligible expenditures for work conducted by the Agency since December 18, 2006, a period of up to two years before board approval. Eligible matching funds are described in Section 4 below.

Contributions to Agency from: 1) private entities; and 2) public entities located outside the county of San Diego, including but not limited to the Metropolitan Water District of Southern California, the U.S. Bureau of Reclamation, U. S. Environmental Protection Agency, California Energy Commission, American Waterworks Association, etc., shall be subtracted from the cost of the Study for the purposes of calculating eligible reimbursable funds, matching funds, and total project cost.

Section 4. Eligible Matching Funds

Eligible matching funds include expenditures for third party costs or in-kind specialized services related to the execution of the Study conducted in-house by the Agency. Overhead and general administrative services do not qualify as in-kind matching funds. Third party costs include subcontractor work for technical support services. In-kind specialty services include technical services such as GIS, environmental review, lab work, field monitoring, and direct costs for project management.

The Water Authority retains sole discretion to determine eligible matching funds based on criteria identified above.

Section 5. Documentation of Expenditures

In order to request reimbursement of expenditures, the Agency must submit the following documents:

- a. Proof of formal approval by its governing Board of the Study and expenditure of matching funds solely for the purpose of the Study. Proof of approval may be in the form of a copy of an adopted resolution or minutes of a meeting of which a motion is adopted which copy is certified as true copy of an official record of the Agency.
- b. Executed copy of any third party/consultant contract for services with respect to the Study.
- c. Documentation of expenditure of agency matching funds, including but not limited to, copies of consultant invoices and statements of agency in-house labor time and expenses (if applicable).

Section 6. Disbursement Conditions

Agency funds must be expended first before reimbursement is requested. After funds are expended, the Lead Agency shall submit invoices to the Water Authority. The Water Authority will reimburse the Agency on a quarterly basis for at least 50% of eligible expenditures upon receipt of an invoice and documentation of expenditures. Only those expenditures incurred by the Agency after December 18, 2008 are eligible for reimbursement. In-kind services are not eligible for reimbursement but can be applied toward the agency cost-share.

For each quarterly invoice, the Lead Agency shall submit the following:

- i. Two copies of the Quarterly Report and Statement of Costs, as specified in Section 8, for the period for which reimbursement is being requested.
- ii. One original invoice and one copy from the Agency requesting reimbursement of grant funds.
- iii. Two copies of consultant/contractor paid invoices and documentation of payment of those invoices; documentation of in-house labor time and expenses (if applicable) for work conducted during the quarter; and any bills of materials.

Section 7. Quarterly Progress Reports and Statement of Costs

Following the execution of the funding agreement, the Agency shall submit a progress report on the status of the Study and thereafter on a quarterly basis. Quarterly Progress Reports should be submitted within one month following the end of each calendar quarter (January through March; April through June; July through September; and October through December). A Statement of Costs (expenditures) shall also accompany all progress reports. Progress reports shall include a report of work completed during the previous period, anticipated work to be conducted during the next quarter, percent completion of tasks (as outlined in the approved schedule), and percent completion of the total Study. The Agency shall use the reporting format

as shown in **Attachment D – Quarterly Progress Report** or a Water Authority approved alternate.

Statement of Costs shall include the expenditures for the previous quarter and total expenditures to date. See **Attachment E – Statement of Costs** for example of Statement of Costs.

Section 8. Performance Criteria

Agency must observe the established criteria:

- a. Work on the approved scope must begin within six months of award of funding.
- b. Work on the approved scope must be completed within three years of the date of execution of this Agreement.
- c. If the schedule lags for greater than two quarters from the schedule included as **Attachment B**, a meeting between the Agency and Water Authority staff will be held to determine cause, remedies, and a possible amendment to the schedule or Agreement .
- d. If the schedule continues to lag for an additional two quarters, Water Authority staff will have a follow-up meeting with Agency staff to determine continued viability of the Study. A report of the outcome of the meeting(s) and recommendations regarding the continued viability of the Agreement will be made to the Water Authority General Manager.

Section 9. Withholding of Grant Disbursement by Water Authority

If the Water Authority determines that the Study is not being completed in accordance with the Performance Criteria in Section 9 and in accordance with the provisions of the Agreement, if the Agency has failed in other respects to comply substantially with the provisions of this Agreement, the Water Authority will demand compliance. If the Agency does not remedy such failure to the Water Authority's satisfaction within a reasonable period, the Water Authority may withhold from the Agency all or any portion of the Water Authority matching fund commitment, and take any other action it deems necessary to protect its interest and to meet the goals of the LISA Program including termination of this Agreement.

Section 10. Acknowledgement of Credit

In the Final Study Report, and when promoting the Study or using any data and/or information developed under the Agreement, the Agency shall include appropriate acknowledgement of credit to the Water Authority, and all cost-sharing partners for their support.

Section 11. Audit Requirements

The contracting parties shall be subject to the examination and audit for a period of three years after the final payment under this Agreement with respect to all matters connected with the performance of this Agreement. All records of the Agency and its contractors and subcontractors shall be preserved for this purpose for at least three years after the completion of the Study.

Section 12. Competitive Bidding of Contracts, Public Works, Prevailing Wages, and Procurements

The Agency shall comply with all applicable laws and regulations regarding securing competitive bids, payment of prevailing wages where applicable, and undertaking competitive negotiations in contracts for the procurement of goods and services provided under this Agreement.

Section 13. Amendments

This Agreement may be amended at any time by mutual agreement of the parties. Requests by the Agency for amendments must be in writing stating the reason for the request.

Any changes in project scope that are requested after the Water Authority Board has approved the funding recommendations must be submitted to the Water Authority for approval. If approved, the Agreement shall be amended to reflect the change.

Section 14. Relationships of Parties

The Agency, its contractors, subcontractors, and their respective agents and employees performing work under this Agreement, shall act in an independent capacity and not as officers, employees, or agents of the Water Authority.

Section 15. Project Officials and Notices

The Director of Water Resources of the Water Authority shall be the Water Authority's representative and shall have the authority to sign the Agreement and amendments to the Agreement if needed.

The Agency Project Manager shall be Greg Blakely. The Agency Project Manager shall be Agency's representative for the administration of the Agreement and shall have full authority to act on behalf of the Agency, including authority to execute all payment requests. All communications given to the Agency Project Manager shall be as binding as if given to the Agency.

Either party may change its Project Manager upon written notice to the other party. Notices required to be given to the Water Authority in writing by the Agency under this Agreement shall be sent to:

Ken Weinberg, Director of Water Resources
San Diego County Water Authority
4677 Overland Avenue
San Diego, CA 92123

Notices required to be given to the Lead Agency in writing by the Water Authority under this Agreement shall be sent to:

Mr. Greg Blakely
City of Oceanside
Water Utilities Department
300 N. Coast Highway
Oceanside, California 92054

A change of address for delivery or notice may be made by either party by written notice of such change of address to the other party.

Section 16. Cooperation

The Agency will provide the Water Authority with quarterly progress reports as specified in Section 8. The Agency will provide the Water Authority with copies of the Draft and Final Study Reports and any interim documents for the Water Authority staff's review and input. The Agency will provide the Water Authority with reasonable access to information being developed or secured for the Study and report purposes including, upon request of the Water Authority, an audit of costs associated with the Study.

Water Authority reserves the right to conduct periodic review meetings with the Agency and its project team. The purpose of these meetings is to provide a detailed update on Study progress, findings to date, and any challenges or other issues that have arisen during the Study.

Section 17. Completion and Work Product

Within 90 days of the conclusion of the Study, the Agency shall submit to the Water Authority: the final invoice for reimbursement, final Statement of Costs, Final Study Report, and the final Quarterly Progress Report. The Lead Agency shall furnish the Water Authority with two (2) hardcopies of the Final Study Report and two (2) electronic copies on CD.

Section 18. Defaults and Remedies

Any claim the Agency may have regarding the performance of this Agreement including, but not limited to, claims for extension of time, shall be submitted to the Water Authority Director of Water Resources within thirty (30) days of the Agency's knowledge of the claim. The Water Authority and the Agency shall then attempt to negotiate a resolution of such claim. If a resolution is reached, an amendment to this Agreement may be processed to implement the terms of the resolution.

The use by either party of any remedy specified herein for the enforcement of this Agreement is not exclusive and shall not deprive the party using such remedy of, or limit the applicability of any other remedy provided by law.

Section 19. Public Record

All reports, including the Final Report, submitted as part of the Study fall under the Public Records Act, Government Code § 6250 et seq., and the Brown Act, Government Code § 54950 et seq., are public records, and as such may be subject to public review.

Section 20. Indemnity - Hold Harmless

The Agency shall defend, indemnify, and hold harmless the Water Authority, its directors, officers, employees, and agents from all damage, injury, claims, demands, losses, and liability to the extent that the same are the result of conducting the Study, or the negligence or willful misconduct of the Agency or any of its officers, employees or any other person acting pursuant to its control in performing the work under this Agreement.

Agency shall not indemnify the Water Authority, its directors, officers, employees, and agents from the sole negligence or willful misconduct of the Water Authority.

Section 21. Laws and Venue

This Agreement shall be interpreted in accordance with the laws of the state of California. Any action brought to interpret or enforce any term of this Agreement, shall be brought in a state or federal court in the county of San Diego.

Section 22. Assignment

The Agency shall not assign, sublet, or transfer this Agreement or any rights or interest in this Agreement without the written consent of the Water Authority, which may be withheld for any reason.

Section 23. Integration

This Agreement represents the entire understanding of the Water Authority and the Agency as to those matters contained herein. No prior oral or written understanding should be of any force or effect with respect to those matters covered hereunder. This Agreement may not be modified or altered except in writing signed by the Water Authority and the Agency.

Section 24. Notice

Any notice or instrument required to be given or delivered by this Agreement may be given or delivered by depositing the same in any United States Post Office, registered or certified, postage prepaid, addressed to:

San Diego County Water Authority
4677 Overland Avenue
San Diego, CA 92123
Attn: Ken Weinberg
Director of Water Resources

City of Oceanside
300 N. Coast Highway
Oceanside, California 92054
Attn: Greg Blakely
Project Manager

Section 25: Signatures

The individuals executing this Agreement represent and warrant that they have the legal capacity and authority to do so on behalf of their respective legal entities.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date written above:

SAN DIEGO COUNTY WATER
AUTHORITY

CITY OF OCEANSIDE

By: _____
Ken Weinberg
Director of Water Resources

By: _____
Jim Wood
Mayor

Approved as to form:
DANIEL S. HENTSCHKE
General Counsel
San Diego County Water Authority

BARBARA HAMILTON
Assistant City Attorney
City of Oceanside

By: _____

By:  _____

Attachment A - Scope of Work

TASK 1

Select Pilot Test Site

Analyze the available data and information to make a recommendation on the preferred site for pilot testing. Our analysis will include a review of site conditions, permit requirements, availability of electrical service, options for brine disposal, site security, hydrogeologic conditions and location relative to future wells and MBGPF.

TASK 2

Drill Monitoring Well

One nested monitoring well will be constructed. During the drilling and construction of each monitoring well, field inspection will be provided to log the soil cuttings and ensure that well construction is conducted according to the specifications. Field inspection will be provided during all aspects of well drilling, construction, development, and testing. Based on the monitoring well drilling results, a letter outlining a recommended Phase II testing program will be prepared.

TASK 3

Obtain City Planning Permit

Prepare City Planning permit application and process necessary permits for the Pilot phase of the project.

TASK 4

Drill Test Well

Drill and construct the test well. Coordinate a schedule to mobilize to the site and begin the work. During mobilization and rig set up be onsite initially to ensure that the rig is set up at the correct location and that equipment, fencing, discharge piping and other issues are addressed in a way that is acceptable. Pumping tests will be performed to determine well and aquifer characteristics, maximum instantaneous yield of the well, and interference in nearby nested monitoring wells. At the conclusion of Phase II testing, analyze the pumping test data to assess aquifer characteristics and pumping zone of influence. Prepare a preliminary drilling and testing report that summarizes the details of all Phase I and Phase II well construction and testing.

TASK 5

Mobilize Pilot Plant

Prepare detailed protocol for performance of the RO testing program. Specify the equipment necessary to perform the testing described in the pilot protocol. Procure and/or lease the equipment specified. Arrange for delivery and coordinate installation and startup of the pilot test equipment.

TASK 6

Operate Pilot Plant

Equipment will be available for twelve months of testing. Provide day-to-day operation by a field engineer(s). Review operating data weekly and provide oversight supervision for adherence to the Test Protocol and decision making for any changes to operating conditions.

TASK 7

Pilot Plant Report

Provide a brief report, monthly during testing, assessing process performance and progress toward achieving the stated project objectives.

TASK 8

Perform Alignment Study

Prepare a detailed alignment study to select the most appropriate alignment from the proposed wells to the MBGPF. Identify and analyze up to five separate alignment alternatives between the well field and MBGPF. Review the five alignments and select the top two alignments for further analysis. Prepare a memorandum and outline our findings.

TASK 9

Feasibility Report

The results of Tasks 1 through 8 will be summarized in a detailed Feasibility Report for the project. The Feasibility Study will be a planning level document that can be used to obtain funding and approvals for the project.

Attachment B – Project Schedule

<u>TASK</u>	<u>COMPLETION DATE</u>
<i>Project Start</i>	<i>May 2007</i>
<i>1 - Select Pilot Test Site</i>	<i>October 2007 (Completed)</i>
<i>2 - Drill Monitoring Well</i>	<i>February 2008 (Completed)</i>
<i>3 - Obtain City Planning Permit</i>	<i>September 2008 (Completed)</i>
<i>4 - Drill Test Well</i>	<i>October 2008 (Completed)</i>
<i>5 - Mobilize Pilot Plant</i>	<i>February 2009 (Completed)</i>
<i>6 - Operate Pilot Plant</i>	<i>April 2009 (Completed)</i>
<i>7 - Pilot Plant Report</i>	<i>April 2010 (Estimated)</i>
<i>8 - Perform Alignment Study</i>	<i>June 2009 (Estimated)</i>
<i>9 - Prepare Feasibility Report</i>	<i>Draft in May 2010 (Estimated)</i> <i>Final in June 2010 (Estimated)</i>
<i>Final Completion Date</i>	<i>June 2010 (Estimated)</i>

Attachment C – Project Budget

<u>TASK</u>	<u>BUDGET</u>
<i>1 - Select Pilot Test Site</i>	<i>\$ 65,600</i>
<i>2 - Drill Monitoring Well</i>	<i>\$ 193,400</i>
<i>3 - Obtain City Planning Permit</i>	<i>\$ 18,500</i>
<i>4 - Drill Test Well</i>	<i>\$ 335,300</i>
<i>5 - Mobilize Pilot Plant</i>	<i>\$ 283,060</i>
<i>6 - Operate Pilot Plant</i>	<i>\$ 189,500</i>
<i>7 - Pilot Plant Report</i>	<i>\$ 16,140</i>
<i>8 - Perform Alignment Study</i>	<i>\$ 78,500</i>
<i>9 - Prepare Feasibility Report</i>	<i><u>\$ 51,000</u></i>
TOTAL	\$1,231,000

ATTACHMENT D

Quarterly Progress Report #1

Covering Period: January 1, 200X to March 31, 200X

Project Title: Project Title

Recipient : Name of Agency
Address

Partners: Co-applicants
Consultants

Contact Person: Name
Contact information

Date Submitted: Date

Name, Title

Signed, Reviewed by designated representative

1. Project Objective:

Discuss overall project objective

2. Project Description / Background:

Describe the project and project background

3. Progress and Status:

List project progress and status by task, including work completed during the reporting quarter and work anticipated to be conducted during the next quarter.

4. Percent Complete of Total Project:

Indicate total percent completion of project

5. Deliverables:

List deliverables, if any, for this reporting period. This may include any intermediate reports that were completed during the reporting period

6. Expenditures:

Expenditures for work performed on the project to date are as follows:

	Previous expenditures	This Quarter	Total to Date	Total Budget	Remaining Budget
Task 1 - Task name	\$0	\$0	\$0	\$0	\$0
Task 2 - Task name	\$0	\$0	\$0	\$0	\$0
Task 3 - Task name	\$0	\$0	\$0	\$0	\$0
Task 4 - Task name	\$0	\$0	\$0	\$0	\$0
Task 5 - Task name	\$0	\$0	\$0	\$0	\$0
Task 6 - Task name	\$0	\$0	\$0	\$0	\$0
Task 9 - Final Report	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0	\$0

7. Schedule Status:

Discuss project schedule status, including any delays that may have been encountered

8. Plans for Next Quarter:

Summarize the work plans for the next quarter

9. Attachments:

Discuss any attachments to the report

10. Miscellaneous Issues

Discuss any miscellaneous issues encountered during the quarter

All quarterly reports should be publicly disclosable and not contain confidential, proprietary or business sensitive information.

ATTACHMENT E - DRAFT Statement of Costs

Invoice No. **1**
 Date Prepared: **April 10, 2009**
 Organization: **City of Oceanside**
 Grant Title: **Local Investigations and Study Assistance - Round 2**
 Project Title: **City of Oceanside Seawater Desalination Pilot Facility & Feasibility Study**
 Reporting Period: **First**
 Reporting Dates: **18-Dec-08 To 1-Jun-09**

Invoice Amount (Reimbursable) \$500,000.00

	Total Project					Agency Cost Share			Reimbursable		
	Contract Budget	Amt. Expended Prior to 12/18/08	Amount Expended for Quarter	Total Expended to Date	Budget Percent Complete	Prior Amount	Current Amount	Total to Date	Prior Amount Invoiced	Current Amount Invoiced	Total Invoiced to Date ⁽¹⁾
Task 1 - Select Pilot Test Site	\$65,600	\$ 65,600.00	\$ -	\$ 65,600.00	100%	\$ 65,600.00	\$ -	\$ 65,600.00	\$ -	\$ -	\$ -
Task 2 - Drill Exploratory Boring and Complete Monitor Well	\$193,400	\$ 193,400.00	\$ -	\$ 193,400.00	100%	\$ 193,400.00	\$ -	\$ 193,400.00	\$ -	\$ -	\$ -
Task 3 - Obtain City Planning Permit	\$18,500	\$ 18,500.00	\$ -	\$ 18,500.00	100%	\$ 18,500.00	\$ -	\$ 18,500.00	\$ -	\$ -	\$ -
Task 4 - Construct Test Well	\$335,300	\$ 335,300.00	\$ -	\$ 335,300.00	100%	\$ 335,300.00	\$ -	\$ 335,300.00	\$ -	\$ -	\$ -
Task 5 - Mobilize Pilot Plant	\$283,060	\$ 283,060.00	\$ 283,060.00	\$ 283,060.00	100%	\$ -	\$ -	\$ 283,060.00	\$ -	\$ 283,060.00	\$ 283,060.00
Task 6 - Operate Pilot Plant	\$189,500	\$ 189,500.00	\$ 189,500.00	\$ 189,500.00	100%	\$ -	\$ -	\$ 189,500.00	\$ -	\$ 189,500.00	\$ 189,500.00
Task 7 - Prepare Pilot Plant Study Report	\$16,140	\$ -	\$ -	\$ -	0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 8 - Perform Alignment Study	\$78,500	\$ 78,500.00	\$ 78,500.00	\$ 78,500.00	100%	\$ -	\$ 51,060.00	\$ 51,060.00	\$ -	\$ 27,440.00	\$ 27,440.00
Task 9 - Prepare Feasibility Study Report	\$51,000	\$ -	\$ -	\$ -	0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal	\$1,231,000	\$ 612,800.00	\$ 551,060.00	\$ 1,163,860.00	95%	\$ -	\$ 51,060.00	\$ 663,860.00	\$ -	\$ 500,000.00	\$ 500,000.00

Note:
 (1) Maximum Total Reimbursable Invoice Amount = \$500,000
 Remaining Budget \$ 67,140.00