Agreement No. A-7134

SECOND AMENDMENT TO AGREEMENT FOR PROFESSIONAL SERVICES

This Second Amendment ("Second Amendment") to the Agreement for Professional Services ("Agreement") is made and entered into in the County of Ventura, State of California, this 9th day of March, 2010, by and between the City of Oxnard, a municipal corporation ("City"), and Black and Veatch Corporation ("Consultant"). This Second Amendment amends the Agreement entered into on March 3, 2009, by City and Consultant. The Agreement previously has been amended on July 21, 2009, by a First Amendment.

City and Consultant agree as follows:

1. As of July 21, 2009, in Section 1 of the Agreement, "Exhibit A2", attached hereto and incorporated herein by reference, is substituted for "Exhibit A1".
2. As of July 21, 2009, in Section 14a of the Agreement, "Exhibit C2", attached hereto and incorporated herein by reference, is substituted for "Exhibit C1".
3. In Section 14a of the Agreement, the figure "$1,550,830" is deleted and replaced with the figure "$1,854,528".
4. As so amended, the Agreement remains in full force and effect.

CITY OF OXNARD

Dr. Thomas E. Holden, Mayor

CONSULTANT

3/25/10

James H. Clark, Vice President
Black and Veatch Corporation

ATTEST:

Daniel Martinez, City Clerk

APPROVED AS TO INSURANCE:

James Cameron, Risk Manager

APPROVED AS TO FORM:

Alan Holmberg, City Attorney

APPROVED AS TO CONTENT:

Ken Ortega, Public Works Director

Lou Balderrama, Project Manager

EXHIBIT A2

SCOPE OF SERVICES

TASK 100 – PROJECT MANAGEMENT
$86,544

Progress Payments: Progress payments shall be prorated per task through the term of the contract and as documented in the detailed monthly Progress Report

Subtask 101. Project Management
$32,020

Consultant shall develop and maintain project workplan, monitor schedules and budgets. Prepare project procedures manual which include scope of work, team organization, project schedule, documents control, communication protocol, and quality control management plan. Consultant shall coordinate and administer subcontract agreements.

Deliverables: Project Workplan and Schedule
Procedures Manual (5 copies)

Subtask 102. Progress Reports and Project Invoices
$28,100

Consultant shall submit project progress report and invoices on a monthly basis. Progress report and invoices shall include status of all tasks, tasks completed in the month, tasks to be performed in the coming month, and status budget, and schedule.

Deliverables: Project Progress Report and Invoice each month for the duration of the project.
Progress Payments: Monthly Progress payments shall be based on the work accomplished in the billing period prorated per task through the term of the contract. The work shall be clearly documented in a detailed monthly Progress Report

Subtask 103. Quality Assurance and Control (QA/QC)
$26,424

Consultant shall utilize in-house technical experts to perform the following checks and reviews of the design documents to assure the requirements of the design are met:

- Technical accuracy
- Document completeness
- Coordination between drawings, specifications and permits
- Adherence to Black & Veatch policies and procedures
- Sequence of construction and constructability
- Compliance with City standards
- Calculation verification/checking
- Quality plan audits

Internal QA/QC shall be performed before each submittal is made to the City.

TASK 200 – PROJECT MEETINGS / WORKSHOPS
$91,876

Progress Payments: Progress payments shall be prorated per task through the term of the contract and as documented in the detailed monthly Progress Report

Subtask 201. Project Kick-Off Meeting
$5,132
Consultant shall facilitate and attend kick-off meeting for the project to confirm project goals, objectives, scope, deliverables, project needs, and schedule. Appropriate subconsultants representatives shall also attend. Initiate data collection and make arrangements for the initial work tasks to begin. Consultant shall prepare agenda for kick-off meeting and submit meeting minutes within 10 calendar days after meeting.

Deliverables: Minutes of Meeting

Subtask 202. Project Meetings
$56,460
Consultant shall conduct design meetings every two weeks for the anticipated 8 month design duration. In addition, Consultant shall conduct meetings with other stakeholders and regulatory agencies under direction of the City staff. (Attendance at 4 meetings is budgeted).

Consultant shall prepare meeting agenda for each meeting and submit meeting minutes within 10 calendar days after each meeting.

Deliverables: Agenda and Minutes of Meeting

Subtask 203. Design and Constructability Workshops
$30,284
Consultant shall conduct design and constructability workshops after 60% and 90% design submittals. Consultant shall prepare meeting agenda for each workshop and submit meeting minutes within 10 calendar days after each workshop. Consultant shall incorporate input, comments, and decisions made at the workshops in the final design.

Deliverables: Agenda, Minutes of workshop and Summary of Decisions

TASK 300 – PRELIMINARY INVESTIGATIONS
$324,136
Progress Payments: Progress payments shall be prorated per task through the term of the contract and as documented in the detailed monthly Progress Report

Subtask 301. Gathering and Review of Existing Data
$7,972
Consultant shall gather and review existing information that is relative to this project and includes but is not limited to the following information:

- Construction Documents of Redwood Trunk Sewer Project
- Redwood Trunk Sewer Project record drawings
- Redwood trunk Sewer Project geotechnical reports

- Available aerial mapping and GIS information for area of proposed RWBP alignment
- Latest information regarding potential recycled water users and water use projections
- Phase 1 Recycled Water Master Plan
- Water-CAD model of recycled water system prepared by Kennedy/Jenks Consultants
- Any available information on Calleguas Municipal Water District Salinity Management Pipeline Phase 1E
- Utility Information

The City will provide the following information:

- GIS information for the areas not included in the preliminary design report (e.g., River Ridge Golf Course Loop, Wooley Road, etc.)
- Ortho-corrected aerial photographs of the alignment
- Updates of utility information along Ventura Road between Redwood St. and Gonzales Road.

Review of the above information will assist in determining the extent of additional geotechnical investigation, survey, utility potholing, and other work to be performed.

Subtask 302 - Site Survey
$75,444
Site survey will be conducted for only areas where survey information was missing in the preliminary design. Survey from the Redwood Trunk Sewer Project for the portion of pipeline along Ventura Road between Redwood Street and Gonzales Road obtained for the preliminary design will be used in the detailed design. Field surveys at open cut pipe section will be provided to supplement the GIS data for the portion within the City of Port Hueneme. In addition, field survey along River Ridge Golf Course Loop, approximately 6,000 feet along Wooley Road, and at up to five (5) potential pipe stringing areas will also be conducted. Width of the survey along the proposed pipeline alignment will be up to the right of way. Survey area at the pipe stringing locations will be approximately 25 feet wide by 1000 feet long.

Deliverables: Digital base maps to be used for the contract drawings

Subtask 303 – Geotechnical Investigation
$52,380
Consultant shall provide permitting, field exploration, laboratory testing, geotechnical evaluation and reporting for the Project. Field exploration will include hollow-stem-auger drill holes along the proposed pipeline alignment. An approximately 19 bore holes will be provided along the RWBP pipeline alignment. Boreholes at the crossings beneath the J Street Drain and Hueneme Drain will be approximately 30 feet deep. Boreholes at other locations will be approximately 15 feet deep. A report summarizes subsurface soil and groundwater conditions at boring locations and geotechnical design criteria will be provided.

Deliverables: Geotechnical Report

Subtask 304 – Utility Investigation and Potholing
$69,940
Utility investigations will be conducted for those areas where utility information was missing in the preliminary design phase. Utility information from the Redwood Trunk Sewer Project for the portion of pipeline along Ventura Road between Redwood Street and Gonzales Road obtained for the preliminary design will be used in the detailed design. Desktop utilities research will be performed along open cut pipeline alignment along Hueneme Road, approximately 6,000 feet along Wooley Road, and along the alignment of the River Ridge Golf Course Loop will be performed. Ground Penetration Radar (GPR) will be performed at approximately twelve (12) pit areas. Each pit area is assumed to be approximately 20 feet wide by 60 feet long. Budget also includes potholing 20 existing utilities.

Deliverables: Digital base map of utility locations
Letter Report

Subtask 305 – Proof-testing the Proposed Slip Line Sections
$57,910
Following cleaning and CCTV inspection by City crews, the Consultant shall measure the internal diameter of the existing Ventura Trunk Sewer including field verification of feasibility of slip lining preliminary pipe diameter by passing a mandrel through the pipeline. Consultant shall evaluate and assess existing conditions of the sewer pipeline. Recommendations of necessary actions required preparing the sewer for slip lining will be provided in a letter report. This subtask assumes that the City will provide DVD or VHS record of CCTV inspection.

An allowance of $50,000 is established for the proof-testing (passing mandrel through pipe) work. Following City's completion of cleaning and CCTV inspection of the existing sewer the City and Consultant will have a better handle on what stretches of the existing sewer the proof-testing is conducted. It is anticipated that the Consultant will secure outside specialized services (contractor) to perform the proof-testing.

Deliverables: Letter report

Subtask 306 – Pipe Material Evaluation
$7,560
Provide preliminary assessment of the possible use of fusion welded PVC for slip lined sections of the project, including discussions with pipe supplier and potential contractors and make recommendations to the City during a design progress meeting.

Deliverables: Submit letter report

Subtask 307 – Hydraulic and Surge Analysis Updates
$37,750
Consultant shall update the hydraulic and surge analysis performed during the preliminary design phase to confirm operating and transient pressures within the pipeline. This task will also provide confirmation of the final pipe material and sizes. The Consultant shall also review Water-CAD model prepared by Kennedy/Jenks Consultants.

Deliverables: Submit letter report

Subtask 308 – Preliminary Review of Environmental Permits
$15,180
It is understood from the City during the preliminary design that no additional California Environmental Quality Act (CEQA) documentation is required for the RWBP Project. This task is to provide a preliminary review of environmental documentation that the City currently holds. A budget allowance of $12,500 has been allocated for this initial review.

Consultant shall perform overview of existing environmental documentation for the project provided by the City and assess if additional environmental documentation and/or permits may be required for implementation of the project. Consultant shall provide a summary of findings and present recommendations to the City.

Deliverables: Summary report of findings

TASK 400 – DESIGN DEVELOPMENT AND SUBMITTALS
$814,438
Progress Payments: Progress payments shall be prorated per task through the term of the contract and as documented in the detailed monthly Progress Report

The Recycled Water Backbone Pipeline (RWBP) Phase 1 project comprises:

- Pipeline extending from the new AWPF at the intersection of Hueneme Road and Perkins Road along Hueneme Road and Ventura Road to the intersection of Ventura Road and Gonzales Road installed using a combination of slip lining, pipe bursting and open trench construction as described in Preliminary Design Report.
- Open trench pipeline around the River Ridge Golf Course loop
- Open trench pipeline along Wooley Road between Ventura Road and Offshore Street.
- Capped stub connections from the RWBP located within Ventura Road to the sidewalk at major intersections. A total of up to 10 stub connections are assumed. The design of connections to individual recycled water users will be carried out under a separate contract by others.
- Surface reinstatement of sections of open trench pipelines. Pavement repairs to conform to City's standards.
- Installation of surge control and pressure measurement devices on pipeline and duct bank to sidewalk. Actual instrumentation wiring, and SCADA interface will be carried out under a separate contract by others.

Subtask 401 – Preparation of Contract Documents
The contract documents will be prepared using Consultant's technical specifications in conjunction with City front end documents. City standard details will be used where available. The budget is based on preparation of contract documents for two construction contracts (trenchless pipeline construction and open trench pipeline construction) for the RWBP Project.

Documents will include traffic control plans to provide construction contractor general traffic control requirements.

Two interim and one final submittal are envisaged as set out below. Internal QA/QC will be performed before each submittal is made to the City as described in Subtask 103.

Each interim submittal will consist of ten sets of 11x17 drawings and specifications, cost opinion and schedule update as required. Review workshops will be conducted with the City to discuss each interim submittal after receipt of review comments from the City. The submittals and review workshops will be scheduled to allow review of both contract packages at the same review workshops

- **60 Percent Submittal -$177,960**

The 60 percent submittal shall consist of contract drawings and detailed technical specifications. The cost opinion presented in the Preliminary Design Report will be updated to reflect the additional detail provided in the design and will carry a 20 percent contingency.

- **90 Percent Submittal - $129,140**

The 90 percent submittal shall consist of contract drawings and detailed technical specifications, both of which are essentially complete except for incorporating final comments from City personnel. The 60 percent cost opinion will be updated to reflect the additional detail provided in the design and will carry a 15 percent contingency.

- **Final Submittal - $384,998 & $122,340**

A final submittal shall be prepared to incorporate the City's comments on the 90-percent submittal and shall include stamped drawings and specifications, which are ready to bid. The final cost estimate will be updated to reflect the City's comments on the 90 percent design and will carry a 10 percent contingency. In addition to the standard .pdf and hard copy versions of the submittals, the final submittal will consist of one full-size set of sealed contract drawings printed on mylar.

Deliverables:

60%, 90%: Plans (11 x 17), (10 copies, each submittal)
Specifications, (10 copies, each submittal)
Cost Opinion (1 copy, each submittal)
Workshop Agenda and Meeting Minutes

Bid Ready: Mylar signed and sealed (1 set)
Plans (11 x 17), (10 copies)
Specifications, (10 copies)
Final Cost Opinion (1 copy)
Complete Bid Documentation on CD in PDF format

The City can also utilize these documents to obtain the appropriate permits and City approval

The Recycled Water Backbone Pipeline (RWBP) Phase 1 project described in Agreement No. A-7134 is modified as follows:

- Deletion of open trench pipeline along Wooley Road between Ventura Road and Offshore Street.

- Inclusion of approximately 2,000 LF of open trench pipeline along Ventura Road north of the I-101 freeway to connect to River Park system.

- Capped stub connections from the RWBP located within Ventura Road to the sidewalk at Wooley Road.

The following scope of services is to be inserted into the Agreement in addition to the existing Agreement dated March 3, 2009 and First Amendment dated July 21, 2009

1. Additional coordination and level of effort required to satisfy Port Hueneme requirements for the section of pipeline which is located within Port Hueneme city limits.

2. Port Hueneme requirement for detailed drawings and traffic control plans to be included as parts of the encroachment permit application for each field activity.

3. City has adopted a structured program approach to implementing the associated GREAT Projects including appointing a third party construction manager to manage the multiple concurrent projects which are required to be completed for the overall system to operate. This approach should lead to savings on overall implementation cost and schedule but has impacted execution of the design process in the following ways:

    a. The need to coordinate front end documents and specifications with the AWPF and Ventura Road Utility Project contracts has increased level of effort needed.

    b. Participation in and response to review comments raised during the third party constructability review, which was not anticipated in the original contract.

    c. Additional level of effort coordinating hydraulic design and system operation philosophy with the Phase 2 master plan consultant and AWPF consultant.

4. Changes in design concept for the method of installation of recycled water line to allow greater hydraulic capacity within the system arising from results of the concurrent Phase 2A Master Plan Study. At the time these requests were made, design of these sections of pipe was more than 90-percent completed. Redesign in now required. The following sections are impacted:

    a. Deletion of pipeline along Gonzales Road between Patterson Road and Ventura Rd (approx 3,800 LF). The revised design includes provision of a stub out at Patterson Road on the south side of Gonzales Road and a stub out on Doris Road clear of Ventura Road to enable future connections to be made. At the time the direction was given, the associated geotechnical investigation, survey and desk top utility research for this section had been carried out. The budget for GPR and potholing along this section has been redistributed to cover other pipeline sections.

b. Change from sliplining within existing 33-inch abandoned sewer to open trench construction along Perkins Road and Hueneme Road between Advanced Water Purification Facility Site and J Street Drain (approx. 1,000 LF). Pipe size at this section was increased from 32-inch HDPE (equating to an internal diameter of only 25.8 inches) to 30-inch steel pipe. Complete utilities research (desktop utility research, GPR, and potholing) along this is section is now required but would not have been required for sliplining.

c. Change from sliplining to pipe burst along Ventura Road between 9th Street and 2nd Street (approximately 3,900 feet). Pipe size at this section will be increased from 16-inch to 18-inch HDPE. Utility research and GPR for this section was completed at proposed insertion pits for sliplining installation method only. Complete utilities research (desktop utility research, GPR, and potholing) along the alignment of this section is now required for pipe bursting but would not have been required for sliplining.

5. Changes in design concept for method of installation of recycled water line from trenchless to open trench arising from the discovery that specific sections of "abandoned" existing sewer pipe remain active and thus not available for sliplining or pipe burst. At the time these sections were identified, design of these sections of pipe was more than 90-percent completed. Utility research for these sections was completed at proposed insertion pits for trenchless installation method only. Complete utilities research (desktop utility research, GPR, and potholing) along these sections are now required for open trench installation along with redesign work including traffic control and paving. The following sections are impacted:

a. Along Ventura Road between Edgewood Way and Huntswood Way (approximately 1,000 feet) from pipe burst to open cut HDPE.

b. Along Ventura Road between 5th street and Little Farms road (approximately 1,200 feet) from pipe burst to open cut HDPE.

c. Along Ventura Road four discrete short sections from trenchless to open trench construction to bypass around three manholes and several laterals which were found to be still in service.

6. Changes in design as set out below:

a. Pavement reinstatement along open trench sections of pipeline installation to be curb to curb rather than typical reinstatement along the pipe trench which has necessitated production of thirteen (13) paving improvement drawings into the contract documentation which were not included in the original scope.

b. Increase in number of customer connections from 10 to 14 plus additional connections to landscaped median for irrigation.

c. Provision of services to locate and expose recently paved over manholes along Ventura Road within City of Port Hueneme to enable cleaning, CCTV and laser profiling of the existing abandoned sewer which is proposed to be slip lined. After

fieldwork, the manholes will be repaved in accordance with requirements of the City of Port Hueneme.

d. Change from open trench to trenchless installation along Hueneme Road between Sta 18+00 and Sta 22+30 to pass beneath Native American Midden site as recommended in the archeological investigation report.

7. Change in the method of proof-testing the proposed slip-lined sections from utilizing a mandrel to pass through the pipeline to laser profiling.

TASK 500 – BIDDING SERVICES
$18,420
Progress Payments: Progress payments shall be made at the completion of the "Contract Procurement" phase, and as documented in the detailed monthly Progress Report

Subtask 501 – Attend Pre-Bid Conferences
$3,000
Consultant shall attend pre-bid conferences for each of the two construction contracts. The budget assumes that both pre-bid conferences are conducted on the same day.

Subtask 502 – Miscellaneous Bid Phase Services
$15,420
Consultant shall provide bid phase services including but not limited to the following services for each of the two construction contracts:

- Interpret construction contract documents and provide written responses to questions from bidders requiring clarification during the bidding period.
- Prepare addenda to the contract documents as required.
- Review and evaluate the qualifications of the three lowest bidders and their proposed major or specialty subcontractors, in light of the experience requirements in the Contract Documents.
- Prepare and distribute formal bid tabulation sheets, evaluate bids, and make written recommendations to City concerning contract award.

TASK 600 – POST DESIGN SERVICES
$364,620
Progress Payments: Progress payments shall be prorated per task based the term of the construction contract(s) and as documented in the detailed monthly Progress Report, with the exception of record drawings, subtask 604.

Subtask 601 – Construction Meetings
$110,440
Consultant shall attend weekly construction progress meetings with the Contractor, City staff, and other consultants for each contract. The budget assumes that construction meetings for the two contracts are conducted consecutively on the same day. A total of seventy-five (75) meetings are budgeted for each contract.

Subtask 602 – Shop Drawing Review
$127,780
Consultant shall review submittals (shop drawings) and other data submitted by the Contractor. Consultant shall review these submittals for general compliance with contract requirements and shall not relieve the Contractor of any of his contractual responsibilities. Consultant's review will not extend to construction safety precautions. and programs incident thereto or means, methods, techniques, sequences or procedures of construction.

A shop drawing log will be maintained and distribute to the City for each contract. The level of effort budgeted for this subtask is 700 work hours based on an assumed seventy (70) submittals total for both contracts, with provisions for an initial review and a second review of each submittal.

Subtask 603 – Request for Information and Change Orders
$88,260
Consultant shall interpret construction contract documents when requested by City and/or the Contractor. Requests for clarification or information shall be in writing and copies of Engineer's response shall be distributed to City. The level of effort budgeted for this subtask is 300 work hours total for both contracts. Any additional effort related to this task shall be considered as supplemental services

Change Orders – Review City or Contractor requests for project changes. A budget of eighty (80) hours is included for change order related work

The RWBP Phase 1 project described in Agreement No. A-7134 is modified as follows:

- Deletion of open trench pipeline along Wooley Road between Ventura Road and Offshore Street.
- Inclusion of approximately 2,000 LF of open trench pipeline along Ventura Road north of the I-101 freeway to connect to River Park system.
- Capped stub connections from the RWBP located within Ventura Road to the sidewalk at Wooley Road.

Subtask 604 – Conformed to Construction Record Drawings.
$38,140

At the end of construction, Consultant shall prepare the "Conforms to Construction Records" drawings based on the Contractor's as-built records. One mylar set, one half size copy and one AutoCad (Version 2008) electronic copy on a compact disc will be provided to the City.

Deliverables: Conformed to Construction Record Drawings
(mylar set, 1 11x17 set, AutoCad (Version 2008) electronic format CD).

Progress Payments: Progress payments will be made at completion of the record drawings and as documented in the detailed monthly Progress Report

The following scope of services is to be inserted into the Agreement in addition to the existing Agreement dated March 3, 2009.

a. Deletion of pipeline along Gonzales Road
b. Change from slipline to open cut along Perkins Road and Hueneme Road
c. Change construction method of 3,900 feet of pipe along Ventura Road between 9th Street and 2nd Street from slipline to pipe burst
d. Change of construction method from slipline to open cut for about 1,000 feet of pipe along Ventura Road between Edgewood and Huntswood Way
e. Change of construction method from slipline to open cut for about 1,200 feet of pipe along Ventura Road 5th Street and Little Farm Road
f. Open trench bypass at four discreet locations
g. Additional paving drawings for pavement reinstatement curb to curb
h. Increase turnouts and additional landscape medians
i. Change from open trench to trenchless installation for section of pipe along Hueneme Road as recommended in the archeological investigation report

TASK 700 – FIELD INVESTIGATIONS
$154,494

Progress Payments: Progress payments shall be prorated per task through the term of the contract and as documented in the detailed monthly Progress Report.

Subtask 701. Site Survey within City of Port Hueneme
$9,500
Consultant shall perform an ortho-referenced aerial survey and ground mapping along Ventura Road within City of Port Hueneme. Width of the survey along the proposed pipeline alignment will be up to the right of way.

Deliverables: Digital base maps to be used for the contract drawings

Subtask 702. Develop Basemap north of I-101 freeway
$6,050
Consultant shall conduct desk top utility research along the alignment of approximately 2,000 LF of open cut pipeline along Ventura Road north of the I-101 freeway to connect to River Park system. City Survey crews will provide base site survey information. Coordinate with City Surveyor regarding information format and datums to be used by City survey team to ensure consistency with digital basemaps prepared by the Consultant under subtask 302.

Deliverables: Digital base maps to be used for the contract drawings

Subtask 703 – Conduct Initial Site Assessment of Pipeline Alignment
$14,990

Consultant shall perform an Initial Site Assessment (ISA) to identify the possible presence of hazardous materials and their potential impact along the proposed pipeline alignment from the AWPF to the River Park Connection north of the I-101 freeway including the golf course loop. The extent of the ISA includes the section of pipeline to be constructed as part of the Ventura Road Utility Project in addition to the Phase 1 Recycled Water Backbone System Project.

The scope is limited to that considered appropriate for an ISA and is not considered a Preliminary Site Investigation, Preliminary Environmental Site Assessment or Preliminary Endangerment Assessment, which may be performed in a later phase. The basic task steps shall include the following:

1. Conduct an interview with City of Oxnard and City of Port Hueneme public work staff regarding issues they have encountered along the existing alignment.

2. Review previous consultants' reports, made available to us, for the area included within the project alignment.

3. Perform a hazardous materials database search for the subject alignment project.

4. Obtain and review historical aerial photography and maps covering the project alignment. The main purpose of the historical review will be to identify past operations or features that may be indicators of potential sources of hazardous materials.

5. Complete a site reconnaissance (windshield survey) of the project corridor to identify present land use and readily observable evidence of possible sources of hazardous materials.

6. Contact local regulatory agencies regarding the impact of any known hazardous materials sources in the project vicinity.

7. Prepare a draft ISA for the project corridor that includes the results of our review of available reports, the database search, site reconnaissance, and aerial photo review. The report will include discussions of identified or suspected hazardous material sites and recommendations for further review and/or investigation (if necessary) to verify or clarify information obtained during the study.

8. Provide response to comments and revisions of the ISA if necessary and complete the Final ISA.

Subtask 704 –Geotechnical Services for Environmental and NPDES Requirements
$101,234

Consultant shall provide permitting, field exploration, laboratory testing, geotechnical evaluation and reporting for the Project as set out below:

1. Subsurface Exploration for Environmental Sampling. Based on the results of the ISA, sample up to ten (10) hollow-stem-auger drill holes along the proposed pipeline alignment at the approximate locations where the ISA indicates contamination may be present. The budget assumes that an encroachment permit will be obtained from both the City of Oxnard and from the City of Port Hueneme at no cost to Consultant. The permit application will include a traffic control plan in accordance with City's permit application requirements.

   The drill holes will be environmentally sampled for soil at selected intervals to a total depth of typically 10 to 15 feet below the existing ground surface, except for any borings

within the Ventura Rd Utility Project area where depth could be up to 30 ft deep. Grab groundwater samples (where groundwater is encountered) will be obtained for environmental testing using disposable bailers from within the auger.

Bulk samples will be obtained from the drill-hole cuttings for geotechnical testing. The drill holes will be backfilled with bentonite upon completion and topped with quick-setting cement. Cuttings will be placed in 55-gallon drums and tested for contaminants prior to disposal. Budget assumes about 2 drums per environmental boring (assuming borings are less than 15 feet deep), and each drum will be sampled for contaminant testing prior to being picked up. Drums will be picked up by an authorized courier and transported for the appropriate disposal.

Selected soil and groundwater samples will be submitted to a State of California certified laboratory for chemical testing. The chemical testing program may include a broad spectrum of possible contaminants of concern based on the ISA findings. The budget assumes up to 4 groundwater samples will be obtained and analyzed, and that 2 soil samples from each boring will be submitted for chemical analysis to supplement data generated previously by City.

Consultant shall not commence subsurface exploration for environmental sampling without written approval from the City.

2. Subsurface Exploration for Groundwater Sampling. 6 hollow-stem-auger drill holes shall be performed along the proposed pipeline alignment on Ventura Road, two to a depth of approximately 30 ft each and the remainder to a total depth of about 20 feet below the existing ground surface:

   Drill holes shall be sampled at about 2- to 5-foot intervals by driving Standard Penetration Test and Modified California samplers to the total depth. Bulk samples will be obtained from the drill-hole cuttings. The drill holes shall be backfilled with bentonite upon completion and topped with quick-setting cement. The budget assumes that cuttings can be distributed near the drill-hole locations and that no drums will be needed.

   Limited geotechnical laboratory testing will be performed on selected soil samples obtained from the drill holes to assist in soil classification and to evaluate engineering properties of the soils.

3. NPDES Sampling and Testing. Collection of water samples during drilling for items 1 and 2 above and the remaining eight (8) borings already authorized under Subtask 303 from within the augers for testing for anticipated dewatering permits. Samples will be obtained using a pump or a disposable bailer.

   The budget assumes ten (10) samples will be obtained, two (2) from the Ventura Road Utilities project and the remainder from the Recycled Water Backbone System Project and full-suite testing for NPDES permitting requirements (excluding dioxin and asbestos).

4. Geotechnical Evaluation/Reporting. Upon completion of the above tasks, geotechnical reports will be prepared summarizing findings and recommendations, as set out below:

   - Initial Draft report covering the borings conducted in May 2009 and associated lab testing and including review of published available data from recent pipeline projects along Hueneme Rd and at the AWPF.

   - Update to Initial Draft report to include the remaining borings authorized in original Agreement.

   - Separate report to cover items 1, 2 and 3 above.

Subtask 705 –Potholing Services
$22,720
Provision of as-needed potholing services along the proposed pipeline alignment from the AWPF to the River Park Connection north of the I-101 freeway, including the golf course loop. Potholing may be required using either vacuum potholing or open pit excavation.

A provisional amount of $20,000 has been included in the budget for this subtask. Utilization of this budget shall be approved on a case by case basis by the City.

Deliverables: Pothole Report(s) with CAD files

EXHIBIT C-2 FEE SCHEDULE

Task	Original Contract Cost ($)	Amendment #1 Cost ($)	Amendment #2 Cost ($)	Total Cost ($)
TASK 100 - PROJECT MANAGEMENT				
Subtask 101 - Project Management	$ 32,020	$ -	$ -	$ 32,020
Subtask 102 - Progress Reports and Project Invoice	$ 28,100	$ -	$ -	$ 28,100
Subtask 103 - Quality Assurance and Control (QA/QC)	$ 26,424	$ -	$ -	$ 26,424
Subtotal Task 100	$ 86,544	$ -	$ -	$ 86,544
TASK 200 - PROJECT MEETINGS/ WORKSHOPS				
Subtask 201 - Project Kick-Off Meeting	$ 5,132	$ -	$ -	$ 5,132
Subtask 202 - Project Meetings	$ 56,460	$ -	$ -	$ 56,460
Subtask 203 - Design and Constructability Workshops	$ 30,284	$ -	$ -	$ 30,284
Subtotal Task 200	$ 91,876	$ -	$ -	$ 91,876
TASK 300 – PRELIMINARY INVESTIGATIONS				
Subtask 301 - Gathering and Review of Existing Data	$ 7,972	$ -	$ -	$ 7,972
Subtask 302 - Site Survey	$ 75,444	$ -	$ -	$ 75,444
Subtask 303 - Geotechnical Investigation	$ 52,380	$ -	$ -	$ 52,380
Subtask 304 - Utility Investigation and Potholing	$ 69,940	$ -	$ -	$ 69,940
Subtask 305 - Proof-testing the Proposed Slip Line Sections	$ 57,910	$ -	$ -	$ 57,910
Subtask 306 - Pipe Material Evaluation	$ 7,560	$ -	$ -	$ 7,560
Subtask 307 - Hydraulic and Surge Analysis Updates	$ 37,750	$ -	$ -	$ 37,750
Subtask 308 - Preliminary Review of Environmental Permits	$ 15,180	$ -	$ -	$ 15,180
Subtotal Task 300	$ 324,136	$ -	$ -	$ 324,136
TASK 400 - DESIGN DEVELOPMENT AND SUBMITTALS				
Subtask 401 - Preparation of Contract Documents				
60% Submittal	$ 177,960	$ -	$ -	$ 177,960
90% Submittal	$ 129,140	$ -	$ -	$ 129,140
Final Submittal	$ 101,800	$ (20,500)	$ 303,698	$ 384,998
Specifications Preparation	$ 122,340	$ -	$ -	$ 122,340
Subtotal Task 400	$ 531,240	$ (20,500)	$ 303,698	$ 814,438
TASK 500 - BIDDING SERVICES				
Subtask 501 - Attend Pre-Bid Conference	$ 3,000	$ -	$ -	$ 3,000
Subtask 502 - Micellaneous Bid Phase Services	$ 15,420	$ -	$ -	$ 15,420
Subtotal Task 500	$ 18,420	$ -	$ -	$ 18,420

Task	Original Contract Cost ($)	Amendment #1 Cost ($)	Amendment #2 Cost ($)	Total Cost ($)
TASK 600 - POST DESIGN SERVICES				
Subtask 601 - Construction Meetings	$ 110,440	$ -	$ -	$ 110,440
Subtask 602 - Shop Drawing Review	$ 127,780	$ -	$ -	$ 127,780
Subtask 603 - Request for Information and Change Orders	$ 90,760	$ (2,500)	$ -	$ 88,260
Subtask 605 - Conformed to Construction Record Drawings	$ 38,140	$ -	$ -	$ 38,140
Subtotal Task 600	$ 367,120	$ (2,500)	$ -	$ 364,620
TASK 700 - FIELD INVESTIGATIONS				
Subtask 701 - Site Survey within Port Hueneme	$ -	$ 9,500	$ -	$ 9,500
Subtask 702 - Develop Basemap North of I-101 Freeway	$ -	$ 6,050	$ -	$ 6,050
Subtask 703 - Conduct Initial Site Assessment of Alignment	$ -	$ 14,990	$ -	$ 14,990
Subtask 704 - Geotechnical; Services for Environmental and NPDES Requirements, Subsurface Exploration for Environmental Sampling, Subsurface Exploration for Groundwater Sampling, Geotechnical Evaluation/Reporting	$ -	$ 101,234	$ -	$ 101,234
Subtask 705 - Potholing Services	$ -	$ 22,720	$ -	$ 22,720
Subtotal Task 700	$ -	$ 154,494	$ -	$ 154,494
TOTAL	$ 1,419,336	$ 131,494	$ 303,698	$ 1,854,528