



**BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS**

Requested Board Meeting Date: October 18, 2016

or Procurement Director Award

Contractor/Vendor Name (DBA): Desert Archaeology, Inc.

Project Title/Description:

Pima Animal Care Center Rehabilitation and New Construction Archaeological Data Recovery and Monitoring (BNPACC).

Purpose:

Amendment of Award: Contract No. CT-SUS-16-221, Amendment No. One (1). This amendment extends the term of the contract to September 28, 2018 and increases the contract amount by \$399,701.32. Administering Department: Office of Sustainability and Conservation

This Amendment will fund Program 2 consisting of post-fieldwork analyses, reporting, and curation.

Procurement Method:

Pursuant to Solicitation for Qualifications No. 197060, on February 16, 2016, the Board of Supervisors awarded a contract for this project in the amount of \$599,724.11 for a contract term of March 1, 2016 to February 28, 2017.

Attachments: Amendment No. One (1).

Program Goals/Predicted Outcomes:

The requested budget amendment will fund Program 2 consisting of post-fieldwork analyses, reporting, and curation. The State Antiquities Permit that was issued by the Director of the Arizona State Museum (ASM) for the archaeological mitigation at the Pima Animal Care Center (PACC), as well as the ASM-approved Archaeological Treatment Plan, require analysis of the recovered artifacts and samples, curation of these artifacts and samples at a State-approved repository, and a document that reports on the archaeological findings and professional interpretations of the recovered data. The outcome is compliance with permitting requirements, and curation of the recovered information that informs us about long past human lives and long term cultural change and survival.

Public Benefit:

Cultural resources compliance will allow for construction of expanded facilities at PACC, which will provide new state-of-the-art and sustainable facilities that are funded by 2014 voter-approved general obligation bonds.

Metrics Available to Measure Performance:

The metrics available are the quality of work, work completed within budget, and within a timely manner.

Retroactive:

No

Procure Dept 09/16/16 PM 12:45

To: COB - 9-16-16 (1)
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Original Information

Document Type: _____ Department Code: _____ Contract Number (i.e., 15-123): _____
Effective Date: _____ Termination Date: _____ Prior Contract Number (Synergen/CMS): _____
 Expense Amount: \$ _____ Revenue Amount: \$ _____
Funding Source(s): _____

Cost to Pima County General Fund: _____

Contract is fully or partially funded with Federal Funds? Yes No Not Applicable to Grant Awards
Were insurance or indemnity clauses modified? Yes No Not Applicable to Grant Awards
Vendor is using a Social Security Number? Yes No Not Applicable to Grant Awards

If Yes, attach the required form per Administrative Procedure 22-73.

Amendment Information

Document Type: CT Department Code: SUS Contract Number (i.e., 15-123): 16-221
Amendment No.: 1 AMS Version No.: 6
Effective Date: 10/18/16 New Termination Date: 9/28/18
 Expense Revenue Increase Decrease Amount This Amendment: \$399,701.32
Funding Source(s): 2014 General Obligation Bonds

Cost to Pima County General Fund: _____

Contact: Matt Sage, Commodities / Contracts Officer Matt Sage Telephone 9-12-16

Department: Procurement May 9-16 9/14/16 Telephone: (520) 724-8586

Department Director Signature/Date: [Signature] 9/14/16

Deputy County Administrator Signature/Date: [Signature] 9/14/16

County Administrator Signature/Date: [Signature] 9/14/16
(Required for Board Agenda/Addendum items)

for

PIMA COUNTY OFFICE OF SUSTAINABILITY AND CONSERVATION

PROJECT: Pima Animal Care Center (BNPACC)
Rehabilitation and New Construction
Archaeological Data Recovery & Monitoring

CONSULTANT: Desert Archaeology, Inc.
3975 North Tucson Boulevard
Tucson, Arizona 85716

CONTRACT NO. CT-SUS-16000000000000000221

AMENDMENT NO. One (1)

FUNDING: 2014 General Obligation Bonds

CONTRACT

NO. CT-SUS-16-221

AMENDMENT NO. 01

This number must appear on all invoices, correspondence and documents pertaining to this contract.

CONTRACT TERM: 03/01/2016 - 02/28/2017	ORIGINAL CONTRACT AMOUNT:	\$	599,724.11
TERMINATION PRIOR AMENDMENT: 02/28/17	PRIOR AMENDMENT(S):	\$	-
TERMINATION THIS AMENDMENT: 09/28/18	AMOUNT THIS AMENDMENT:	\$	399,701.32
	REVISED CONTRACT AMOUNT:	\$	999,425.43

CONTRACT AMENDMENT

WHEREAS, COUNTY and CONSULTANT have entered into the Contract referenced above; and

WHEREAS, as stated in the original Contract, COUNTY requires continued provision for Program 2 consisting of post-fieldwork analyses, reporting, and curation, and

WHEREAS, COUNTY and CONSULTANT have agreed to increase the amount of the Contract to provide payment for said services, and extend the Contract term; and

WHEREAS, CONSULTANT has agreed to provide these services at a cost acceptable to COUNTY.

NOW, THEREFORE, it is agreed as follows:

CHANGE the first paragraph of **ARTICLE 1 – TERM AND EXTENSION/RENEWAL/CHANGES**, as follows:

FROM: “This Contract, as approved by the Board of Supervisors, commences on March 1, 2016, and terminates on February 28, 2017, unless sooner terminated or further extended pursuant to the provisions of this Contract.”

TO: “This Contract, as approved by the Board of Supervisors, commences on March 1, 2016, and terminates on **September 28, 2018**, unless sooner terminated or further extended pursuant to the provisions of this Contract.”

REPLACE Exhibit “A” (5 Pages) with Exhibit “A” (5 Pages) attached her ein.

CHANGE the second paragraph of **ARTICLE 4 – COMPENSATION AND PAYMENT**, as follows:

FROM: “CONSULTANT’s total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as EXHIBIT ‘B’ – COMPENSATION SCHEDULE (17 pages). CONSULTANT may invoice monthly for the actual costs incurred plus a pro-rata portion of one-half (1/2) of the fee amount for each task. CONSULTANT will calculate actual costs based on actual hours spent, to which the agreed overhead rate may be applied, plus Other Direct

Costs. Actual Costs may then be represented as percentage of the "not to exceed" cost amount associated with that task on the CONSULTANT's invoice for billing purposes. Calculations and supporting data will be made available to COUNTY at any time, upon request. The cumulative payment for the actual costs of any task may not be more than the "not to exceed" cost amount associated with that task. Upon completion of a task, (including acceptance by COUNTY of all associated deliverables), COUNTY will pay the balance of the fee allocated to that task to CONSULTANT."

TO: "CONSULTANT's total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as EXHIBIT 'B' – COMPENSATION SCHEDULE (17 pages) and **EXHIBIT 'B-1' (2 pages)**. CONSULTANT may invoice monthly for the actual costs incurred plus a pro-rata portion of one-half (1/2) of the fee amount for each task. CONSULTANT will calculate actual costs based on actual hours spent, to which the agreed overhead rate may be applied, plus Other Direct Costs. Actual Costs may then be represented as percentage of the "not to exceed" cost amount associated with that task on the CONSULTANT's invoice for billing purposes. Calculations and supporting data will be made available to COUNTY at any time, upon request. The cumulative payment for the actual costs of any task may not be more than the "not to exceed" cost amount associated with that task. Upon completion of a task, (including acceptance by COUNTY of all associated deliverables), COUNTY will pay the balance of the fee allocated to that task to CONSULTANT."

ADD Exhibit "B-1" (2 Pages) attached herein.

CHANGE the fifth paragraph of **ARTICLE 4 – COMPENSATION AND PAYMENT**, as follows:

FROM: "The total of all payments to CONSULTANT for services provided under this Contract will not exceed Five Hundred Ninety-Nine Thousand Seven Hundred Twenty-Four Dollars and Eleven Cents (\$599,724.11)."

TO: "The total of all payments to CONSULTANT for services provided under this Contract will not exceed **Nine Hundred Ninety-Nine Thousand Four Hundred Twenty-Five Dollars and Forty-three Cents (\$999,425.43)**."

This Amendment shall be effective on October 18, 2016.

All other provisions of the Contract, not specifically changed by this Amendment, shall remain in effect and be binding upon the parties.

IN WITNESS WHEREOF, the parties have affixed their signatures to this amendment on the dates written below.

APPROVED:

Chair, Board of Supervisors

Date

CONSULTANT:

William H. Daelle

Signature

William H. Daelle, President

Name and Title (Please Print)

9/16/16

Date

ATTEST:

Clerk of the Board

APPROVED AS TO FORM:

[Signature]

Deputy County Attorney

TOBIN ROSEN

Name (Please Print)

9/13/16

Date

EXHIBIT "A" (5 Pages)
SCOPE OF SERVICES
For

Pima Animal Care Center: Rehabilitation and New Construction,
Archaeological Data Recovery and Monitoring

A. Project Scope:

Pima County Facilities Management Department (FMD) proposes construction to expand and improve the Pima Animal Care Center (PACC) northeast of the intersection of Silverbell Road and Sweetwater Road, in Tucson, Pima County, Arizona, in T13S, R13E, Sections 20 and 29 (Figure 1). Almost all project activities will occur on Pima County owned land (Parcel #s 103-04-001Q, 103-10-002A), as well as a portion of City of Tucson (COT) owned parcel (103-04-001N) that Pima County is in the process of purchasing. Parcel 103-04-001P is owned by COT, which requires coordination with COT departments. This locally funded 2014 County Bond project is intended to significantly expand and make improvements to the PACC, including adding new kennel space and expanding the facility to improve support functions and provide staff office space. The current (January 2016) design plan calls for the rehabilitation of sections of the existing facility and includes large-scale new construction outside the current footprint of the PACC facility (Attachment 1). The proposed expansion has the potential to negatively impact portions of an underlying archaeological site, AZ AA:12:46(ASM), which is eligible for listing on the Arizona and National Registers of Historic Places.

The complexity of the PACC construction project creates several constraints and opportunities for the cultural resources compliance tasks that should be noted and incorporated into mitigation planning. Pima County requires cultural resources compliance to be coordinated with the FMD project, with an overarching constraint imposed by the need for the PACC facility to remain in operation and fully functional throughout the mitigation and construction. The cultural resources compliance work must coordinate with construction phasing, requiring phased data recovery in advance of ground-breaking construction.

Previous archaeological research at AZ AA:12:46(ASM) has identified extensive archaeological deposits below the current ground surface representing prehistoric occupation during the Hohokam cultural sequence, ranging from the Pioneer period and possibly earlier, to the Classic period, with the most intense occupation and use of the site in the Classic period. Recent archaeological work to the northeast in Columbus Park has identified the buried cultural remains of several Late Archaic–Early Agricultural period villages. The proximity of these important archaeological remains suggest the possibility that similar remains could be present below the Hohokam period occupation of AZ AA:12:46(ASM).

The comprehensive program of archaeological data recovery for the PACC project will be undertaken in two primary phases: Phase I data testing and Phase II data recovery. Because of the aforementioned logistical constraints for this project, phased excavations are likely to be simultaneous. For example, based on construction phasing, Phase 1 followed by Phase 2 investigations may occur in one area, while Phase 1 investigations in another area may occur during Phase 2 investigations of the first area.

The phased data recovery program will include the preparation of a Data Recovery and Monitoring Plan. The Data Recovery and Monitoring Plan will provide the basic framework for all aspects of the archaeological project, including archaeological excavations, analyses, reporting, and curation. Phase I data testing will include surface documentation and systematic subsurface testing to identify and assess the nature and extent of buried cultural resources within the project area. Phase II data recovery will include intensive subsurface excavations and investigations targeted at site components in which the Phase I testing has identified significant buried cultural deposits. The last phase of fieldwork will occur during construction, and will consist of archaeological monitoring of the demolition of existing facilities, as well as archaeological monitoring of the initial ground-disturbing construction activities associated with the PACC project. Archaeological monitoring is not part of the current contract, and is purposely excluded due to the pending construction schedule that will be used to determine the duration and costs associated with monitoring.

It is expected that the archaeological consulting firm will secure all needed agreements, permits, and permissions, and follow additional conditions prior to commencing and during fieldwork, some of which are listed below.

Human Burial Agreement

Before any archaeological field work begins, the archaeological consulting firm will consult with the Arizona State Museum (ASM), and a Burial Agreement will be executed with affiliated and/or concerned Tribe(s). This Agreement is required to be in place before and Phase I fieldwork can proceed.

Repository Agreement

The archaeological consulting firm will enter into a Repository Agreement with the ASM to ensure that all required project materials, records, and documentation are turned over to ASM for curation.

Arizona Antiquities Act Permit and Other Permits

The archaeological consulting firm is responsible for ensuring that all required permits are obtained prior to commencing fieldwork. These include, but are not limited to, a project specific Arizona Antiquities Act (AAA) Permit, a Clean Water Act 402 Stormwater Pollution Prevention Permit (SWPPP), and a dust abatement permit. The SWPPP will have to be maintained until construction actions begin, which are anticipated to occur in December of 2016.

Other Conditions

The archaeological consulting firm shall ensure that all equipment and personnel do not enter or traverse the Army Corps of Engineers 404 Permit Preliminary Jurisdictional Delineation of the Trail's End Wash.

All phased data recovery must be kept within the PACC project area.

The PACC facilities will be open to the public during all phases of archaeological mitigation. Safety with regards to open excavations is important. Measures must be taken to reasonably preclude entry into the archaeological project area during phased data recovery while there are open excavation areas.

The archaeological project area will be fenced and identified as an active construction zone with restricted access to non-project personnel. Exemptions include days designated for public outreach.

At the conclusion of each phase of fieldwork, all excavation units and trenches must be backfilled. No compaction will be required.

Data Recovery

Data Recovery and Monitoring Plan. The archaeological consulting firm will prepare and submit a Data Recovery and Monitoring Plan that will include thorough background of previous archaeological research within the project area, and its setting and the development of an appropriate archaeological context. An archaeological context for the PACC project area will be developed by identifying patterns or trends in the region's prehistory to establish the role of the cultural resources within the regional prehistory and history. The archaeological context will be used to develop pertinent research topics, or domains, and specific research questions within those domains, which can be addressed by recovered site data. The approved Data Recovery and Monitoring Plan will guide the data recovery and archaeological monitoring throughout the project.

The data recovery and monitoring plan will incorporate a work plan for Phase I data testing, Phase II data recovery, and archaeological monitoring of demolition and ground-disturbing construction, as well as a logistics plan for addressing logistical issues including, but not limited to, restricting public access to the archaeological project area, coordination with PAAC personnel, construction phasing, and defining lines of communication for questions from general public. The work plan will establish the intended methods of Phase I data testing and the level of effort necessary to accomplish the data testing. The Phase II data recovery work plan will identify the expected results of Phase I testing, based on previous research in the

area, and provide a work plan in which anticipated artifact and feature types are identified, an appropriate sampling fraction is recommended, Phase II excavation strategies are outlined, and all post-fieldwork analyses, repatriation, curation, and report preparation tasks are provided. A Monitoring Plan will be included in the Plan to address demolition monitoring, as well as post-fieldwork monitoring of ground-disturbing activities associated with construction. A tentative schedule for completing data recovery, artifact and sample analyses, as well as monitoring activities for the project will be included, but assumptions are allowable as the construction phasing schedule has yet to be defined (as of January 2016). The archaeological consulting firm will submit the Plan to OSC for review and comment before it is distributed for comment to appropriate agencies. The archaeological consulting firm will submit the Plan to ASM as part of its project specific Arizona Antiquities Act permit application.

Phase I Fieldwork: Surface and Sub-surface Work. Fieldwork will commence after the Burial Agreement is executed, all necessary permits are secured, and the Data Recovery and Monitoring Plan has received OSC approval. The data testing, or Phase I of data recovery, will require surface documentation and collection, detailed site mapping, and systematic subsurface investigations to determine the nature and extent of buried features and other cultural deposits. The surface work will include full documentation of the current surface expression of site AZ AA:12:46(ASM) within the project area. The subsurface data testing will focus on mechanical excavation based on the known distribution of features and artifacts to expose and identify the nature, distribution, and extent of buried features and other cultural deposits within the project area.

It is anticipated that the shift from Phase I to Phase II data recovery can be made through field review with OSC staff and appropriate agencies. There will be no need for a Phase I preliminary report as there is a strong likelihood of the need for simultaneous Phase I and Phase II investigations in different parts of the project area. Weekly field meetings with the OSC project manager, the consultant, and any other appropriate parties/agencies will occur in order to address logistical challenges, transition from Phase I to Phase II, revised sampling strategies, etc.

Phase II Fieldwork: Sampling and Excavation. The approved Plan will be implemented in the project area. Phase II will include systematic investigation through mechanical and intensive hand excavation. The sampling fraction will include site features and other cultural deposits identified during Phase I testing that have a good potential to address the research questions established in the Plan. Scientific samples for specialized analyses will be collected during Phase II data recovery. These samples will be selected to address the established research questions. All excavations will be fully documented and all recovered artifacts will be retained for analysis and, ultimately, curation at the ASM. Human remains and associated funerary objects will be systematically excavated and prepared for repatriation to the appropriate Native American Tribe(s) according to the executed Burial Agreement.

Phase II End of Data Recovery Fieldwork Report. After the completion of fieldwork, the Phase I and Phase II data recovery will be summarized in a preliminary report to ensure that cultural resources compliance requirements are met. This report will be submitted to the OSC project manager for review, and once approved OSC will submit it to appropriate agencies for review to provide documentation that field work has been satisfactorily completed for compliance purposes.

Artifacts and Samples: Processing, Cataloging, and Analysis. The post-fieldwork phase of the project will include the documentation of the fieldwork, and the processing, cataloging, and scientific analysis of all recovered artifact assemblages, collected samples, and other site data. Specialists with the necessary scientific expertise will analyze the collected scientific samples. All scientific analyses will be documented, with the results presented in written technical documents to be incorporated in the Project Final Report.

Project Final Report. The results of Phase I and Phase II data recovery and monitoring will be integrated in a single Project Final Report. The report will document all aspects of the background research, provide a description of all Phase I fieldwork, report on Phase II fieldwork and its relation to prior archaeological research within and adjacent to the project area, as well as on all monitoring activities and all analyses. Results of monitoring may be presented as an Appendix in the final report. The final report will be an illustrated report that includes, but is not limited to, sections about the background

research concerning the project area, such as the geological and environmental background, the culture history and previous archaeological research, the prehistoric and historic context, a geoarchaeological assessment of the project area, the research domains and questions, the field methods, and comprehensive descriptions of all excavated features and cultural deposits. The final report will include full documentation of all post-fieldwork analyses, including the analyses of architectural and structural features, and typological, technological, and functional analyses of recovered artifact assemblages (e.g., ceramic, flaked stone, ground stone, and all faunal remains). All special recovered artifacts will be analyzed (e.g., diagnostic ceramic, flaked-stone, and ground-stone artifacts, faunal artifacts, stone or ceramic figurines, and whole or reconstructable ceramic vessels). Collected scientific samples will be analyzed by specialists (e.g., chronometric, special faunal, macrobotanical, palynological, and other samples). The Project Final Report will provide interpretations of the excavated cultural features and deposits, and present an interpretive synthesis of the analytic results. This report will include a comprehensive bibliography of references cited, and appendices presenting the site data and results of analyses.

After review and comments on a Draft Final Report, a revised perfect bound Final Report will be prepared and produced according to a schedule and in a quantity agreed upon by the archaeological consulting firm and the OSC.

Curation at ASM must be completed before copies of the final perfect bound report are delivered to OSC.

B. FINAL PRODUCTS AND DELIVERABLES

The final products and deliverables will be negotiated with the consulting firm, but will include the following:

- **Data Recovery and Monitoring Plan.** Before fieldwork can commence, the archaeological consulting firm will prepare and submit a data recovery and monitoring plan as described above, with an included research proposal, for review and approval by OSC for submittal to appropriate agencies.
- **Phase II End of Data Recovery Fieldwork Report.** After the completion of Phase I and Phase II fieldwork, both phases of data recovery will be briefly summarized in an End of Data Recovery Fieldwork Report to ensure that cultural resources compliance requirements are met. This report will summarize the preliminary results and status of data recovery. It will provide a schedule for the completion of laboratory analyses and the production of the Project Final Report. The End of Data Recovery Fieldwork Report will undergo review and approval by OSC for submittal to appropriate agencies.
- **Project Final Report.** A Project Final Report (in draft form for review, and final form that addresses comments on the draft) will be prepared that systematically presents the results of all phases of the fieldwork, including all recovered and analyzed site data and interpretations of the excavated features and other excavated cultural deposits, as well as the results of archaeological monitoring. The final report, which will be perfect bound in its final form, will include full documentation of all post-fieldwork analyses and address the research domains and questions to develop interpretations of the cultural deposits and place them within the established prehistoric and historic context of the site and the region. The data recovery results will be integrated with and other previous research at the site and in the region.
- **Shapefiles and Digital Data:** All acquired digital data, including, but not limited to, report photographs, all spatial data in shapefile/geodatabase format will be submitted to OSC with the Project Final Report.
- **Curation.** All records and materials will be curated at the Arizona State Museum.

C. SCHEDULE AND COMMITMENT OF RESOURCES

The PACC Project is a priority for Pima County FMD. Cultural Resources compliance requirements are the critical path to beginning construction. Construction will begin in December 2016, at which point the End of Data Recovery Fieldwork Report will have been accepted by OSC and appropriate agencies. Following the conclusion of data recovery fieldwork (excepting monitoring) the schedule will incorporate an additional 18 months for the completion of all analyses, preparation of the perfect bound Project Final Report, and curation. Monitoring will occur in phases beginning in December of 2016. The archaeological consulting firm will prepare a schedule with assumptions and make a commitment to provide the necessary human and equipment resources to successfully execute the cultural resources effort within the PACC project area to meet Pima County's needs.

END APPENDIX 'A'

Exhibit 'B-1' (2 pages)

Pima Animal Care Center (PACC) Archaeological Data Recovery and Monitoring (Contract # CT-SUS-16*221)

PACC Project Budget Amendment (Data Recovery Completion)

Estimated Direct Labor

Position	Hourly Rate	Collections Management	Data Analysis	Report Production	Total Hours	Total Cost
Senior Project Director	30.00	0	0	40	40	1,200.00
Regional Specialist	33.90	0	0	160	160	5,424.00
Project/Field Director 1	28.00	0	0	640	640	17,920.00
Ceramic Analyst 1	27.90	0	440	0	440	12,276.00
Faunal Analyst	25.00	0	160	0	160	4,000.00
Flaked Stone Analyst	25.00	0	320	0	320	8,000.00
Ground Stone Analyst	27.30	0	320	0	320	8,736.00
Archaeobotanical Analyst	28.50	0	240	0	240	6,840.00
Petrology Director	27.30	0	160	0	160	4,368.00
Project Director 1/Historic Artifact Analyst	28.00	0	240	0	240	6,720.00
Mapping Director	26.20	0	0	40	40	1,048.00
Mapping Specialist 1	23.40	0	0	160	160	3,744.00
Laboratory Director	26.30	160	0	0	160	4,208.00
Publications Director	26.60	0	0	160	160	4,256.00
Crew Chief	22.80	0	0	45	45	1,026.00
Drafting/Mapping Specialist	21.40	0	0	300	300	6,420.00
Asst Crew Chief (Shell)	16.90	0	100	0	100	1,690.00
Database Assistant	20.00	0	300	0	300	6,000.00
Word Processor 1	16.60	0	0	320	320	5,312.00
Subtotal Direct Labor		160	2,280	1,865	4,305	109,188.00
Overhead (140% of Labor)						152,863.20
Subtotal Labor and Overhead						262,051.20
Samples						
Carbon-14 Dating		35 samples @ \$595.00/sample				20,825.00
Pollen		30 samples @ \$125.00/sample				3,750.00
Thin Sections		40 samples @ \$23.00/sample				980.00
Subtotal Samples						25,495.00
Consultant Services						
Osteology		90 hours @ \$55.00/hour				4,950.00
Subtotal Consultants						4,950.00

*Pima Animal Care Center (PACC) Archaeological Data Recovery and Monitoring (Contract # CT-SUS-16*221)*

Other Expenses		
Curation/Burial Agreement	75 boxes @ \$1,000.00/box	75,000.00
Report Production	400 pages @ \$15.00/page	6,000.00
Subtotal Other Expenses		81,000.00
Budget Summary		
Direct Labor		109,188.00
Overhead		152,863.20
Samples		25,495.00
Consultant Services		4,950.00
Other Expenses		81,000.00
Total Costs		373,496.20
Fee (10% of Labor and OH)		26,205.12
Total Estimated Cost and Fee		399,701.32