

**REQUEST FOR COUNCIL ACTION**  
CITY OF SAN DIEGO

1. CERTIFICATE NUMBER 332  
(FOR AUDITOR'S USE C) 02/24

000187

TO: CITY ATTORNEY

2. FROM (ORIGINATING DEPARTMENT):  
Storm Water Department

02/06/2009

4. SUBJECT:  
AUTHORIZE FIRST AMENDMENT TO AGREEMENT WITH MWH AMERICAS, INC. FOR AN AMOUNT NOT TO EXCEED \$515,402 FOR A TOTAL AMOUNT NOT TO EXCEED \$708,849.

5. PRIMARY CONTACT (NAME, PHONE & MAIL STA.)  
FRITZ ORTLIEB, (619) 236-6318 MS59

6. SECONDARY CONTACT (NAME, PHONE & MAIL STA.)  
RUTH KOLB, (619) 993-5731 MS1900

7. CHECK BOX IF REPORT TO COUNCIL IS ATTACHED

**8. COMPLETE FOR ACCOUNTING PURPOSES**

FUND	DEPT.	ORGANIZATION	OBJECT ACCOUNT	JOB ORDER	C.I.P. NUMBER	AMOUNT	9. ADDITIONAL INFORMATION / ESTIMATED COST:

**10. ROUTING AND APPROVALS**

ROUTE (#)	APPROVING AUTHORITY	APPROVAL SIGNATURE	DATE SIGNED	ROUTE (#)	APPROVING AUTHORITY	APPROVAL SIGNATURE	DATE SIGNED
1	ORIGINATING DEPARTMENT	<i>[Signature]</i>	2/6/09	8	DEPUTY CHIEF	<i>[Signature]</i>	2/6/09
2	EAS	<i>[Signature]</i>	2/9/09	9	COO	- Not Required -	
3	EOC	<i>[Signature]</i>	2/10/09	10	CITY ATTORNEY	<i>[Signature]</i>	2-9-09
4	LIAISON OFFICE	<i>[Signature]</i>	2/9/09	11	ORIGINATING DEPARTMENT	<i>[Signature]</i>	2/9/09
5	FM	<i>[Signature]</i>	2/9/09	DOCKET COORD: _____ COUNCIL LIAISON: <i>[Signature]</i>			
6	AUDITORS	<i>[Signature]</i>	2/9/09		COUNCIL PRESIDENT <i>[Signature]</i>	<input type="checkbox"/> SPOB <input type="checkbox"/> CONSENT <input checked="" type="checkbox"/> ADOPTION	
7	RISK MGM	<i>[Signature]</i>			<input type="checkbox"/> REFER TO: _____	COUNCIL DATE: 2-24-09	

11. PREPARATION OF:  RESOLUTION(S)  ORDINANCE(S)  AGREEMENT(S)  DEED(S)

1. Authorize the Mayor or designee, to amend the existing Agreement with MWH to increase the total Not-To-Exceed value from \$193,447 to \$708,849 for consulting services related to the San Diego Regional Water Quality Control Board's Tentative Cleanup and Abatement Order No. R9-2005-0126, and,

2. Authorize the Mayor and City Attorney to tender invoices of MWH under said Amendment No. 1 to insurance carriers for payment.

11A. STAFF RECOMMENDATIONS:  
Approve Recommended Actions.

12. SPECIAL CONDITIONS:

**COUNCIL DISTRICT(S):** 3, 4, 7 and 8.

**COMMUNITY AREA(S):** Azalea/Hollywood Park, Barrio Logan, Broadway Heights, Castle, Cherokee Point, Chollas Creek, Colina Del Sol, Corridor, El Cerrito, Emerald Hills, Encanto, Fairmont Park, Fairmont Village, Fox Canyon, Golden Hill, Islenair, Jamacha Lomita, Lincoln Park, Logan Heights, Mountain View, Mt Hope, North Park, Oak Park, Redwood.

**ENVIRONMENTAL IMPACT:** This activity is not a "project" and is therefore not subject to CEQA per CEQA guidelines Section 15060(c) (2) and Section 15306.

**HOUSING IMPACT:** N/A

**OTHER ISSUES:** Notify Attorney's Office, Michelle Barrett, immediately for pick up.

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**COUNCIL ACTION  
EXECUTIVE SUMMARY SHEET  
CITY OF SAN DIEGO**

DATE: 02/03/2009

ORIGINATING DEPARTMENT: Stormwater Department

SUBJECT: Authorize First Amendment to Agreement with MWH Americas, Inc. for an Amount Not to Exceed \$515,402 for a Total Amount Not to Exceed \$708,849.

COUNCIL DISTRICT(S): 3,4,7 and 8.

CONTACT/PHONE NUMBER: Fritz Ortlieb/619.236.6318

**REQUESTED ACTION:**

Approval of the First Amendment to the Agreement with MWH Americas, Inc. to provide additional expert technical services regarding Tentative Cleanup and Abatement Order No. R9-2005-0126 for an amount not to exceed \$708,849.

**STAFF RECOMMENDATION:**

Approve Recommended Actions.

**EXECUTIVE SUMMARY OF ITEM BACKGROUND:** The San Diego Regional Water Quality Control Board (RWQCB) issued Tentative Cleanup and Abatement Order No. R9-2005-0126 on April 29, 2005 (TCAO). The TCAO names the City of San Diego and 5 other responsible parties as "Dischargers" of pollutants to San Diego Bay in the area of shipyards and the Chollas Creek mouth. The TCAO proposes to order those parties to perform a large scale cleanup. The RWQCB commenced an administrative process to hear, evaluate and establish cleanup levels and liability. Due to the complexity of scientific and other factual issues, the RWQCB and the parties have submitted to mediation since September 2008. If the mediation does not result in a settlement, the administrative hearing process will be resumed and a final order will be entered. Throughout this process the City has required extensive specialized expert consulting services, technical recommendations, and meeting attendance/presentations regarding contaminated sediments at the NASSCO and BAE Systems shipyards adjacent to San Diego Bay. An initial agreement with MWH for expert technical services was approved on October 8, 2008 under the Mayor's authority.

The original agreement provided a cost not to exceed \$193,447. The complexity of the case issues and the substantial possible costs of cleanup have resulted in the scheduling of numerous extended mediation sessions where expert services are essential. There is also a need for additional studies, reports, and scientific investigation. This current action provides those additional services through a First Amendment for an amount not to exceed \$515,402, with a total Agreement value not to exceed \$708,849.

The facts relating to Tentative Cleanup and Abatement Order No. R9-2005-0126 and MWH's work for the City will be presented in executive session due to the potential for litigation in this matter.

**FISCAL CONSIDERATIONS:** The City has tendered claims on insurance policies in this matter. An insurance carrier has paid the initial \$193,447 and has given approval to cover all proposed

000190

costs under this First Amendment. There is no direct fiscal impact to the City from this action apart from the depletion of coverage on that one policy.

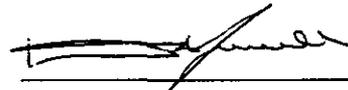
EQUAL OPPORTUNITY CONTRACTING INFORMATION (IF APPLICABLE): Not Applicable: The original agreement was executed on October 8, 2008 pursuant to a sole source contract issued under the Mayor's authority at the direction of the City Attorney's Office.

PREVIOUS COUNCIL and/or COMMITTEE ACTION: The facts relating to this tentative cleanup and abatement order and litigation will be presented in closed session.

COMMUNITY PARTICIPATION AND PUBLIC OUTREACH EFFORTS: None for this action.

KEY STAKEHOLDERS AND PROJECTED IMPACTS: No projected impacts anticipated with this action.

  
Tony Heinrichs,  
Storm Water Department

  
David Jarrell,  
Deputy Chief/Chief Operating Officer

RECEIVED  
09 FEB 12 AM 11:46  
CITY CLERKS OFFICE  
SAN DIEGO, CA

000191

DOCKET SUPPORTING INFORMATION  
CITY OF SAN DIEGO

DATE:

332  
02/24

EQUAL OPPORTUNITY CONTRACTING PROGRAM EVALUATION

February 10, 2009

SUBJECT: AUTHORIZE FIRST AMENDMENT TO AGREEMENT WITH MWH AMERICAS, INC. FOR AN AMOUNT NOT TO EXCEED \$515,402 FOR A TOTAL AMOUNT NOT TO EXCEED \$708,849

**GENERAL CONTRACT INFORMATION**

Recommended Contractor: MWH Americas, Inc.

Amount of this Action: \$ 515,402.00  
Original Contract: \$ 193,447.00 (SOLE SOURCE)  
Cumulative Total: \$ 708,849.00

Funding Source: Insurance Carrier (claim on insurance policy)

**SUBCONSULTANT PARTICIPATION**

**This Action**

Gradient Corporation (Other)	\$ 115,457	22.40%
Spectrum Geophysics (Other)	\$ 2,000.00	00.39%
<b>Total Certified Participation</b>	<b>\$ 0.00</b>	<b>0.00%</b>
<b>Total Other Participation</b>	<b>\$ 117,457</b>	<b>22.79%</b>
<b>Total Participation</b>	<b>\$ 117,457</b>	<b>22.79%</b>

**EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE**

Equal Opportunity: Required

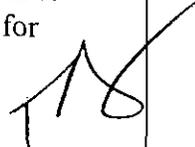
MWH Americas, Inc., has submitted a Work Force Report for their San Diego employees dated October 1, 2008 indicating 40 employees in the Administrative Work Force. The Administrative Work Force Analysis indicates under-representations in the following categories:

- Hispanics, Asian, and Filipino in A&E, Computer, & Science and Technical
- Female in A&E, Computer, & Science

EOC Staff is concerned about the under representations in the contractor's workforce and non-participation of certified firms and therefore, has requested an Equal Employment Opportunity Plan and will continue to monitor the firm's effort to implement their plans.

**ADDITIONAL COMMENTS**

This action requests to authorize the Mayor or designee, to amend the existing Agreement with MWH to increase the total Not-To-Exceed value from \$193,447 to \$708,849 for consulting services related to the San Diego Regional Water Quality Control Board's Tentative Cleanup and Abatement Order No. R9-2005-0126 and to authorize City Attorney to tender invoices of MWH under said Amendment No. 1 to insurance carriers for payment.

  
RLL

(R-2009-846 Corr.)

RESOLUTION NUMBER R-\_\_\_\_\_

DATE OF FINAL PASSAGE \_\_\_\_\_

A RESOLUTION OF THE CITY OF SAN DIEGO AUTHORIZING  
AN AMENDMENT TO AGREEMENT FOR EXPERT SERVICES  
BY MWH AMERICAS, INC. IN CONNECTION WITH SAN DIEGO  
BAY SHIPYARD SEDIMENT CLEANUP.

WHEREAS, the California Regional Water Quality Control Board issued Tentative Cleanup & Abatement Order No. R9-2005-0126 regarding polluted sediment in San Diego Bay; and

WHEREAS, the Tentative Cleanup & Abatement Order names the City of San Diego as a Discharger; and

WHEREAS, the City required the retention of specialized technical assistance regarding the Tentative Cleanup & Abatement Order and on October 9, 2009 retained MWH Americas for such assistance; and

WHEREAS, the City requires additional technical services of MWH Americas solely and confidentially to assist the City Attorney in responding to the Technical Cleanup & Abatement Order; NOW, THEREFORE,

BE IT RESOLVED, by the Council of the City of San Diego, that the Mayor or his designee is authorized to execute, for and on behalf of the City, an amendment to the agreement with MWH Americas, Inc. for expert consulting services related to Regional Water Quality Control Board Tentative Cleanup & Abatement Order No. R9-2005-0126, under the terms and conditions set forth in the First Amendment to Agreement in Exercise of Option, on file with the City Clerk as Document No. RR-\_\_\_\_\_.

BE IT FURTHER RESOLVED, that the Mayor and the City Attorney are authorized to tender invoices of MWH Americas under the First Amendment to the City's insurance carriers for payment.

BE IT FURTHER RESOLVED, that the above activity is not a project and therefore is not subject to the California Environmental Quality Act pursuant to CEQA Guidelines sections 15060(c)(2) and 15306 because it is data collection that will not result in a physical change to the environment.

APPROVED: JAN I. GOLDSMITH, City Attorney

By Frederick M. Ortlieb  
Frederick M. Ortlieb  
Deputy City Attorney

FMO:mb  
02/10/09  
02/18/09 Corrected  
Cert.No:N/A  
Or.Dept:StormWater  
R-2009-846

I hereby certify that the foregoing Resolution was passed by the Council of the City of Diego, at its meeting of \_\_\_\_\_.

ELIZABETH S. MALAND, City Clerk

By \_\_\_\_\_  
Deputy City Clerk

Approved: \_\_\_\_\_  
(date)

\_\_\_\_\_  
JERRY SANDERS, Mayor

Vetoed: \_\_\_\_\_  
(date)

\_\_\_\_\_  
JERRY SANDERS, Mayor

**FIRST AMENDMENT TO AGREEMENT**  
**IN EXERCISE OF OPTION**

This First Amendment to the Agreement for As-Needed Professional Services, dated October 8, 2008 (Agreement), is hereby entered into by and between the City of San Diego (City), a municipal corporation, and MWH Americas, Inc. (Consultant).

**RECITALS**

- A. The City and Consultant (collectively referenced herein as the "Parties") entered into the Agreement to provide professional environmental services for as-needed professional consulting services related to San Diego Regional Water Quality Control Board Tentative Cleanup and Abatement Order No. R9-2005-0126.
- B. Sections 3.2 and 4.1.2 of the Agreement provided for a total compensation to Consultant of a maximum of \$193,447 for the term of Agreement; Section 4.1.2 provides a term to December 31, 2010.
- C. The City desires to execute a First Amendment to the Agreement with Consultant to invoke the option to extend the Agreement for an another one-year term, expand the scope of services, and accordingly to provide additional professional environmental services, as indicated in **Exhibit 1**, for an additional compensation not to exceed **\$515,402** for this First Amendment.
- D. Consultant desires to provide the services required under this First Amendment.

E. NOW, THEREFORE, in consideration of the Recitals stated above and incorporated herein by this reference and the mutual obligations of the Parties expressed herein, the City and Consultant agree to modify the Agreement, a copy of which is attached hereto and incorporated herein by reference, as follows:

1. Section 2.1.1 **Scope of Work** is amended to read as follows:

The scope of services will be determined by the City on an as-needed basis and presented to Consultant as a Task Order on an as-needed basis. The Consultant shall perform the Professional Services at the direction of the City, and as generally set forth into the **Scope of Work** at **Exhibit 1**, and as more specifically described in each Task Order, at the direction of the City, at maximum hourly rates not to exceed those enumerated in the **Fee Schedule** at **Exhibit 2**.

2. Section 3.2 Amount of Compensation is amended to read as follows:

The City shall pay the Consultant for performance of all Professional Services rendered in accordance with the Agreement and this First Amendment, including all reasonably related expenses, in an amount not to exceed **\$708,849** with said maximum amount consisting of \$193,447 pursuant to the original Agreement, and \$515,402 for this First Amendment. The compensation for each Task under this First Amendment shall not exceed **\$708,549** and the compensation for **Additional Services**, described pursuant to Section 3.3, if any, shall not exceed **\$515,402**.

3. Section 3.3 **Additional Services** is amended to read as follows:

If the City requires additional professional Services (Additional Services) beyond the Scope of Services performed pursuant to this First Amendment, the City shall pay Consultant an additional fee, not to exceed **\$515,402**. The City and the Consultant must agree in writing

upon such a fee for a specific Task, based on the hourly rates at **Exhibit 2**, before Consultant begins the **Additional Services**.

4. Section 8.12 is amended to add the following:

This Agreement and the exhibits and references incorporated into this Agreement fully express all understandings of the Parties concerning the matters covered in this Agreement.

No change, alternation, amendment, or modification of the terms or conditions of this Agreement, and no verbal understanding of the Parties, their officers, agents, or employees shall be valid unless made in the form of a written change agreed to in writing by both Parties. All prior negotiations and agreements are merged into this Agreement.

5. The following attachments are incorporated herein by reference as follows:

**Exhibit 1 Scope of Work, and Exhibit 2 Fee Schedule.**

6. The Parties agree that this First Amendment to the Agreement represents the entire understanding of Consultant and the City and affects only those paragraphs referred to, and all other terms and conditions of the Agreement remain in full force and effect.

IN WITNESS WHEREOF, this First Amendment to the Agreement is executed by the City, acting by and through its City Council, and by Consultant.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2007

THE CITY OF SAN DIEGO

By

\_\_\_\_\_  
Print Name: Jay Goldstone

Title: Chief Operation Officer

Date: \_\_\_\_\_

MWH Americas, Inc.

By:

\_\_\_\_\_  
Print Name: **Simon Bluestone, PG**

Title: **Vice President**

Date: \_\_\_\_\_

I hereby Approve the form and legality of the foregoing Amendment on this

\_\_\_\_\_ day of \_\_\_\_\_, 2007.

IAN GOLDSMITH, City Attorney

By

\_\_\_\_\_  
Frederick Ortlieb  
Deputy City Attorney

EXHIBIT 1  
SCOPE OF WORK

The Services to be performed by CONSULTANT shall be as follows:

To support the City of San Diego in their defense against parties regarding the Shipyards Sediment Cleanup and Abatement Order, MWH will provide the following expert technical services to the City of San Diego.

1. PCB sources. MWH with its subcontractors will complete the following in order to attempt to identify and evaluate potential Polychlorinated Biphenyl sources.
  - 1.1. Create database of Exponent and historical data found in pdf files in the record.
  - 1.2. Create GIS files showing the locations of available sample points.
  - 1.3. Visit the RWQCB file room to obtain the Campbell Shipyard original investigation reports. Create database of the marine side sampling data from these reports.
  - 1.4. Analyze existing PCB congener, homologue, and Aroclor data to assess
    - 1.4.1. If different PCB sources can be identified
    - 1.4.2. If PCB congener, homologue, or Aroclor signatures specific to the use in a power generating facility can be identified
    - 1.4.3. If PCB congener, homologue, or Aroclor signatures specific to the use in a shipyard can be identified.
  - 1.5. Finalize research into the historical use of PCBs and possible transport mechanisms from to San Diego Bay.
    - 1.5.1. Develop interview questions for former employees of SilverGate power facility.
    - 1.5.2. Conduct site reconnaissance and a geophysical survey of a catch basin located at the Southeast corner of the former SilverGate power facility property.
    - 1.5.3. Follow up with references and documents that show the use of PCBs at SilverGate or facilities similar to SilverGate and operational history of SilverGate or facilities similar to SilverGate associated with fluid and waste discharge and disposal activities.
  - 1.6. Attend two (2) mediation sessions in San Diego to present findings of PCB source analysis.
  - 1.7. Attend four (4) internal meetings or conference calls to present findings and discuss with greater City team.
2. Chollas mass loading analysis and allocation model for Southern Triangle section of site.

- 2.1. Visit the RWQCB file room to obtain documents regarding monitoring of Navy discharges to the Chollas mouth.
- 2.2. Assess the likely loadings of the pollutants of concern from NASSCO to the area south of the 28th Street Pier using available information from the record, information from the literature, and other information gathered over the course of this project.
- 2.3. Assess the likely loadings of the pollutants of concern from the Naval shipyard area to the Chollas mouth area using information from the record, information from the literature, and information that to be gathered from the RWQCB associated with monitoring of Navy discharges to the Chollas mouth area.
- 2.4. Estimate quantitative mass loadings over the years to the Mouth areas from NASSCO and the Navy.
- 2.5. Assess the removal of materials from the Chollas mouth based on dredging information from the Navy and the administrative record.
- 2.6. Assess the natural deposition rate at the Mouth of Chollas based on the bathymetric survey data from the Navy, the administrative record, and other sources and dredging information.
- 2.7. Estimate past mass loadings from Chollas
  - 2.7.1. Review and evaluate the Tetra Tech long term hydrologic simulation and sediment loading model used for the Chollas Mouth TMDL.
  - 2.7.2. Use this model to assess historic mass loadings from Chollas. Use the Navy's modeling results to assess the amount that would have been trapped to assess the mass accumulation within the Chollas Mouth. Compare the Navy's results with the hydrologic record to determine appropriateness of estimates. Make adjustments as necessary.
- 2.8. Take the assessment of historic mass loadings from Chollas over the years and comparing that to the estimated mass loadings from NASSCO and the Navy, prepare a comparative table and set of pie charts for each of the potential pollutants of concern: PCBs, PAHs, TBT, copper, lead, mercury, zinc, arsenic, chromium, cadmium.
- 2.9. Estimate future mass loadings from Chollas.
  - 2.9.1. Update the modeling results by incorporating mass loading changes within the watershed due to the implementation of BMPs in accordance with the Chollas Creek TMDL.
  - 2.9.2. Update the modeling results by incorporating mass loading changes within the watershed due to the implementation of BMPs in accordance with the Chollas Mouth TMDL.
- 2.10. Estimate future deposition rates on the Chollas mouth area based on a combination of sources: the Navy modeling study of sediment trapping, and the bathymetric and dredging mass balance data, if available. Based on this

information, calculate the amount of Chollas sediments that are likely to accumulate in the mouth zone. Given the concentrations of constituents coming from Chollas as BMPs are implemented in the watershed, calculate an estimate of the future changes in constituent concentrations in the Chollas mouth area after meeting alternative cleanup levels.

- 2.11. Prepare a draft and final Powerpoint presentation showing the results of the allocation model and the estimated future impacts to the mouth area.
  - 2.12. Participate in eight (8) mediation sessions presenting, rebutting, and discussing the results.
  - 2.13. Participate in eight (8) meetings or conference calls presenting and discussing the results with the greater team.
3. Alternative Cleanup Levels
- 3.1. Review the approach to alternative cleanup levels developed by the mediator. Provide comment to the City. Review and evaluate cost estimates, correlations, collocations, and other presentations of the cleanup level approach. Provide input on these methods for presentations on the cleanup level approach.
  - 3.2. Using the approach developed by the mediator, assess the total project dredge area and volume and total project cost to achieve those cleanup levels. Use GIS system described above.
  - 3.3. Using the allocation model developed above, show the City's potential share of those cleanup costs.
  - 3.4. Prepare technical memorandum for City use showing the potential overall cleanup costs and City's potential share.
  - 3.5. Attend four (20) mediation sessions to present comment, listen, rebut, and review other's presentations on alternative cleanup levels.
  - 3.6. Attend eight (8) internal meetings or conference calls to discuss alternative cleanup levels.

**EXHIBIT 2  
FEE SCHEDULE**

Table 1: Estimated Fee for Continuing Mediation and Other Support for Shipyards Matter			
Item	Rate	Quantity	Fee
<b>PCB Source Identification</b>			
Principal Professional II	\$ 246.00	149	\$ 36,654.00
Supervising Professional	\$ 159.00	0	\$ -
Senior Professional	\$ 132.00	114	\$ 15,048.00
Senior Project Administrator	\$ 90.00	3	\$ 270.00
Professional	\$ 105.00	43	\$ 4,515.00
Associate Professional	\$ 93.00	0	\$ -
Distance (in Miles):	\$ 0.58	1,600	\$ 928.00
Travel	\$ 1.15	1,000	\$ 1,150.00
Lodging	\$ 1.15	150	\$ 172.50
Meals	\$ 1.15	50	\$ 57.50
APC	\$ 10.25	309	\$ 3,167.25
<b>Subcontractors</b>			
Gradient	\$ 1.15	115,457	\$ 132,775.55
Spectrum Geophysics	\$ 1.15	2,000	\$ 2,300.00
<b>Subtotal PCB Source Identification</b>			<b>\$ 197,037.80</b>
<b>Chollas Creek Allocation Model</b>			
Principal Professional II	\$ 246.00	436	\$ 107,256.00
Supervising Professional	\$ 159.00	276	\$ 43,884.00
Senior Professional	\$ 132.00	56	\$ 7,392.00
Senior Project Administrator	\$ 90.00	4	\$ 360.00
Professional	\$ 105.00	0	\$ -
Associate Professional	\$ 93.00	0	\$ -
Distance (in Miles):	\$ 0.58	1,600	\$ 928.00
Other ODC	\$ 1.15	0	\$ -
Travel	\$ 1.15	1,000	\$ 1,150.00
Lodging	\$ 1.15	150	\$ 172.50
Meals	\$ 1.15	50	\$ 57.50
APC	\$ 10.25	772	\$ 7,913.00
<b>Subcontractors</b>			
Gradient	\$ 1.15	0	\$ -
Spectrum Geophysics	\$ 1.15	0	\$ -
<b>Subtotal Chollas Creek Allocation Model</b>			<b>\$ 169,113.00</b>
<b>Cleanup Levels and Remediation Cost Estimates</b>			
Principal Professional II	\$ 246.00	344	\$ 84,624.00
Supervising Professional	\$ 159.00	80	\$ 12,720.00
Senior Professional	\$ 132.00	120	\$ 15,840.00
Senior Project Administrator	\$ 90.00	3	\$ 270.00
Professional	\$ 105.00	120	\$ 12,600.00
Associate Professional	\$ 93.00	96	\$ 8,928.00
Distance (in Miles):	\$ 0.58	1,600	\$ 928.00
Other ODC	\$ 1.15	0	\$ -
Travel	\$ 1.15	4,000	\$ 4,600.00
Lodging	\$ 1.15	600	\$ 690.00
Meals	\$ 1.15	200	\$ 230.00
APC	\$ 10.25	763	\$ 7,820.75
<b>Subcontractors</b>			
Gradient	\$ 1.15	0	\$ -
Spectrum Geophysics	\$ 1.15	0	\$ -
<b>Subtotal Cleanup Levels and Remediation Cost Estimates</b>			<b>\$ 149,250.75</b>
<b>Total</b>			<b>\$ 515,401.55</b>