



1 additional two-year period, increase the Agreement amount by \$450,000 for the period of  
2 October 1, 2021 to September 30, 2022 and \$179,393 for the period of October 1, 2022  
3 to September 30, 2023 (for an aggregate contract amount not to exceed \$2,510,538),  
4 and add additional services to the Scope of Work;

5 NOW, THEREFORE, in consideration of the mutual terms, covenants, and  
6 conditions herein contained, the Parties agree as follows:

7 1. Section 1.A. of the Agreement is hereby amended to read as follows:

8 "A. Contractor shall furnish specialized services more particularly  
9 described in Exhibit "A-1", attached to the Agreement and incorporated by this  
10 reference, and in Exhibit "A-3", attached to the First Amendment and incorporated  
11 by this reference, and in Exhibit "A-4", attached to the Second Amendment and  
12 incorporated by this reference, and in Exhibit "A-5", attached to the Third  
13 Amendment and incorporated by this reference, in accordance with the standards  
14 of the profession, and City shall pay for these services in the manner described  
15 below, in the amount not to exceed Four Hundred Fifty Thousand Dollars  
16 \$450,000 for the period October 1, 2021 to September 30, 2022 and in an amount  
17 not to exceed One Hundred Seventy-Nine Thousand Three Hundred Ninety-Three  
18 Dollars \$179,393 for the period of October 1, 2022 to September 30, 2023, which  
19 shall not exceed an aggregate contract amount of Two Million Five Hundred Ten  
20 Thousand Five Hundred Thirty-Eight Dollars (\$2,510,538), at the rates or charges  
21 shown in Exhibit "A-2", Exhibit "A-3", Exhibit "A-4", and Exhibit "A-5".

22 2. The term of this Agreement shall be deemed to have commenced at  
23 midnight on October 1, 2016 and shall terminate at 11:59 p.m. on September 30, 2023,  
24 unless sooner terminated as provided in this Agreement, or unless the services or the  
25 Project is completed sooner;

26 3. Except as expressly modified herein, all of the terms and conditions  
27 contained in Agreement No. 34467 are ratified and confirmed and shall remain in full  
28 force and effect.


OFFICE OF THE CITY ATTORNEY  
CHARLES PARKIN, City Attorney  
411 West Ocean Boulevard, 9th Floor  
Long Beach, CA 90802-4511

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IN WITNESS WHEREOF, the Parties have caused this document to be  
duly executed with all formalities required by law as of the date first stated above.

AECOM TECHNICAL SERVICES, INC., a  
California corporation

October 8, 2021

By   
Name Michael Arvidson  
Title Associate Vice President

October 20, 2021

By Jay F  
Name Jay Francisco  
Title Associate Vice President

"Contractor"

CITY OF LONG BEACH, a municipal  
corporation

October 29, 2021

By Linda J. Johnson  
City Manager

"City"

EXECUTED PURSUANT  
TO SECTION 301 OF  
THE CITY CHARTER.

This Third Amendment to Agreement No. 34467 is approved as to form on

October 27, 2021.

CHARLES PARKIN, City Attorney

By   
Deputy

**EXHIBIT “A-5”**

# Contract Extension Proposal

Agreement No. 34467  
Effective September 14, 2016

City of Long Beach

August 10, 2021

Mr. Oliver Cruz  
Fuel Operations Program Officer  
Financial Management | Fleet  
Services Bureau  
2600 Temple Avenue, Long Beach,  
CA 90806

**Prepared for:**

City of Long Beach  
Mr. Oliver Cruz  
Fuel Operations Program Officer  
Financial Management | Fleet Services Bureau  
2600 Temple Avenue, Long Beach, CA 90806

**Prepared by:**

Assaf A. Rees, PE  
Project Manager  
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## 1. Introduction

AECOM Technical Services, Inc. (AECOM) is pleased to submit this proposal to the City of Long Beach, California (the City) for the extension and modification of Agreement 34467 (the Contract) between AECOM and the City, effective September 14, 2016.

The Contract term ends on September 30, 2021 and is hereby proposed to be extended for an additional two years, from October 1, 2021 through September 30, 2023 (Fiscal Years 2022 through 2023 [FY22-FY23]) with the following objectives:

1. Complete groundwater remediation to closure criteria at the City's Fire Stations 7 and 17 (FS7 and FS17, respectively).
  - 1.1. The remediation design and implementation process at these sites has been more complex, compared to FS10 and FS11, which had been remediated to closure criteria within the current term of the Contract.
  - 1.2. The regulatory closure process of the Los Angeles Regional Water Quality Control Board (LARWQCB), from remediation completion to receipt of closure, has taken approximately two years to complete.
2. Perform semiannual groundwater monitoring and reporting and quarterly landfill gas (LFG) monitoring and reporting for the City's Davenport Park.
  - 2.1. The groundwater scope of work was added into the Contract in 2018. No additional funding was added to the Contract.
  - 2.2. The LFG scope of work was added into the Contract in 2019 and has further evolved in accordance with regulatory requirements from the Los Angeles County Department of Public Health, acting as the Local Enforcement Agency (LEA). Additional funding was added to the contract for a total of \$258,765 through two contract amendments, effective March 18, 2020, and January 21, 2021.
  - 2.3. Through January 29, 2021, \$361,405 were expended in support of the Davenport Park groundwater and LFG scope of works. An additional \$70,000 is estimated to be expended through the current Contract term for groundwater and LFG monitoring and reporting. Work in support of the LFG control system planning was funded by Amendment No. 2 of the Contract on January 21, 2021. In total, \$271,405 will have been diverted from the fire station groundwater remediation program.

## 2. Scope of Work

The scope of work for the City of Long Beach's FY22-FY23 consists of two main tasks, in accordance with the objectives specified above. Detailed descriptions are included below.

### 2.1 Fire Stations 7 and 17

Groundwater remediation to regulatory closure is ongoing at these sites under the supervision of the LARWQCB, with full-scale remedies having been planned, approved, designed, and implemented/constructed. Both stations have operating biosparge systems (three sparging wells and one sparging well, respectively) for in situ aerobic bioremediation of gasoline constituents in groundwater, specifically benzene and MTBE (methyl tert-butyl ether). Fire Station 7 also has an approved in situ chemical oxidation (ISCO) remedy with one injection event performed in October 2019 and another event tentatively planned for FY22. The stations have a semiannual groundwater monitoring and reporting program in-place as required by the LARWQCB.

To achieve the regulatory closure criteria, in accordance with the State of California Low-Threat Closure Policy and the approved Remedial Action Plan for the sites, it is estimated that the remedies will continue operation/implementation through FY22. This will be followed by a formal closure request submittal to the LARWQCB and a review, comment, correspondence, and approval process through FY24. During that time, the groundwater remediation, monitoring, and reporting must be continued.



### 2.1.1 Field Tasks

To complete the scope of work, the following field tasks will be performed:

1. Eight semiannual groundwater monitoring events, four at FS7 and four at FS17, including gauging and sampling of groundwater monitoring wells (13 and 20 wells, respectively), in accordance with the LARWQCB approvals of Remedial Action Plans (RAPs) (March 20, 2019 and November 16, 2018, respectively). The FS7 monitoring program is also being conducted in accordance with the LARWQCB Waste Discharge Requirement (WDR) R4-2014-0187 and Monitoring and Reporting Program (MRP) CI-10484, dated August 21, 2019. Events include:
  - 1.1. Labor for planning, permitting, procurement, and performance;
  - 1.2. Field vehicles, equipment, and materials; and
  - 1.3. Laboratory analysis and investigative waste disposal services.
2. 104 weekly operations, maintenance, and monitoring (OM&M) events of biosparging systems at FS7 and FS17, in accordance with the LARWQCB-approved RAPs and the systems OM&M Manuals. Events include:
  - 2.1. Labor for planning and performance; and
  - 2.2. Field vehicles, equipment, and materials.
3. One ISCO injection event at FS7 using base-activated persulfate, in accordance with Remedial Action Plan Addendum No. 2, dated January 10, 2019 and the LARWQCB WDR R4-2014-0187, dated August 21, 2019. Events include:
  - 3.1. Labor for planning, permitting, procurement, and performance;
  - 3.2. Field vehicles, equipment, materials;
  - 3.3. Remedial reagent chemicals; and
  - 3.4. Geophysical surveying and Injection services.

### 2.1.2 Deliverables

1. Eight semiannual Groundwater Monitoring and Remedy Progress Reports, four at FS7 and four at FS17, will be prepared and submitted to the LARWQCB, by January 15 and July 15 each year, including accompanying data files, via the Geotracker portal. The reports will include:
  - 1.1. Tabulated groundwater elevation, water quality, and chemical data for the period and historically;
  - 1.2. Site maps showing site features and conditions in three dimensions;
  - 1.3. Contour maps and charts depicting the nature and extent of impacts to groundwater;
  - 1.4. Tables and charts presenting system operations data;
  - 1.5. Summary of field activities and results;
  - 1.6. Summary of the remedial action and progress; and
  - 1.7. Conclusions and planned activities.
2. Four semiannual *WDR Reports* will be prepared for FS7 and submitted to the LARWQCB, by January 15 and July 15 each year, including accompanying data files, via the Geotracker portal. The reports will include:
  - 2.1. Tabulated groundwater elevation, water quality, and chemical data for the period;
  - 2.2. Site map showing the site layout and injection locations;
  - 2.3. Summary of field activities; and
  - 2.4. Certification statements.

## 2.2 Davenport Park

The scope of work at the site consists of four main tasks:

1. Four semiannual groundwater monitoring events and reports, in accordance with the LARWQCB WDR R4-2016-0361 and MRP CI-8327A, dated December 14, 2016.
2. LFG monitoring and reporting. Four quarterly events in FY22, in accordance with the *Work Plan for Landfill Gas Monitoring Infrastructure Development, Revision 3* (November 20, 2019), approved by the LEA on December 4, 2019. Twelve (12) monthly events in FY23, in accordance with the anticipated Southern California Air Quality Management District (SCAQMD) Permit to Operate and Monitoring Plan for the LFG control system.
3. Landfill gas control system planning support, design/engineering, and construction administration. Planning support and design/engineering are ongoing, with construction planned for FY22. This scope was outlined and funded by Contract Amendment No. 2, effective January 21, 2021 and Purchase Order No. 22113262, dated May 18, 2021, respectively. No additional scope of work or funding is requested herein.

### 2.2.1 Field Tasks

To complete the scope of work, the following field tasks will be performed:

1. Four semiannual groundwater monitoring events including gauging and sampling of three groundwater monitoring wells and three piezometers. Events include:
  - 1.1. Labor for planning, permit renewals (excluding fee payment), subcontractor procurement, and performance;
  - 1.2. Field vehicles, equipment, and materials; and
  - 1.3. Traffic control, laboratory analysis, and investigative waste disposal services.
2. Sixteen (16) LFG monitoring events, including four quarterly events in FY22 (i.e., prior to system startup) and 12 monthly events in FY23 (i.e., during system operations). Events will include field measurement of gas concentrations at 24 LFG and perimeter monitoring probes, sampling of two probes per event, and structure methane sensor calibration and data download. Events include:
  - 2.1. Labor for planning, procurement, and performance;
  - 2.2. Field vehicles, equipment, and materials; and
  - 2.3. Laboratory analytical services.

### 2.2.2 Deliverables

1. Four semiannual *Waste Discharge Requirements Groundwater Monitoring Reports* will be prepared and submitted to the LARWQCB, by April 30 and October 30 each year, including accompanying data files, via the Geotracker portal. The reports will include:
  - 1.1. Tabulated groundwater elevation, water quality, and chemical data for the period and historically;
  - 1.2. Site maps showing site features and conditions;
  - 1.3. Contour/post maps and charts depicting the nature and extent of impacts to groundwater;
  - 1.4. Tables and charts presenting statistical analysis data;
  - 1.5. Summary of field activities and results; and
  - 1.6. Planned operations.
2. Eight quarterly *Landfill Gas Monitoring and Control Reports* will be prepared and submitted to the LEA, by January 30, April 30, July 30, and October 30 each year. The reports will include:
  - 2.1. Tabulated LFG monitoring and analytical data for the period and historically;
  - 2.2. Site maps showing site features and depicting the measured methane concentrations;
  - 2.3. Summary of field activities and results; and
  - 2.4. Planned operations.

### 3. Cost Estimate

The estimated cost to implement the SOW described in this proposal is **\$629,393**. A detail of labor and reimbursable rates and costs is provided in **Appendix A**. Amended bill categories and rates for the contract extension are included in **Appendix B**. Fees and costs will be billed to the City on an accrued time and materials basis in accordance with Contract No. 34467 between AECOM and the City (dated September 14, 2016, fully executed on December 28, 2016, and amended on May 5, 2020 and January 21, 2021).

### 4. Assumptions

The level of effort and estimated cost to perform the SOW described in this proposal is based upon the following assumptions:

1. The cost estimate is based on known Site conditions and regulations.
2. City Planning Bureau, Long Beach Energy Services, Southern California Edison, LEA, SCAQMD, LARWQCB and any other applicable agency fees and permit fees will be paid directly by the City. AECOM will assist the City with permit renewal forms/applications as specified in the scope of work.
3. Site access will be facilitated by the City; therefore, no standby time will be incurred.
4. Field work will not be delayed or obstructed due to ongoing activities at each Site.
5. AECOM will work with the City to minimize impacts to existing site activities but will not be held responsible for interruptions to ongoing activities at each Site due to our scope of work.
6. All field work will be completed under Level D or modified level D personal protective equipment.
7. The SCAQMD Permit to Construct/Operate is currently in Draft stage and under review. The scope and schedule of required monitoring and reporting was assumed per the Draft permit conditions (March 12, 2021) .
8. All investigative derived wastes generated during the course of this project are assumed to be non-hazardous, as defined by both Federal and California Environmental Protection Agencies.
9. A cost and/or schedule adjustment may be necessary if changes to these assumptions occur during the course of the project.

### 5. Limitations

The City agrees that AECOM shall be required to use only reasonable efforts, consistent with the practice of other professionals engaged in similar activity, in the course of fulfilling AECOM's duties under this proposal. AECOM is not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the project was performed.

As you are aware, the world is experiencing a pandemic as it relates to the coronavirus COVID-19 ("Coronavirus"). This health emergency has the potential of impacting multiple facets of the project including, without limitation, labor, personnel, manufacturing, equipment, materials, transportation and related supply chains, all of which have the potential to adversely impact the critical path of the project schedule. These potential, unusual, and unavoidable delays are outside of the control of AECOM and cannot be anticipated or determined in advance. AECOM will exercise reasonable care to mitigate the potential impact of the Coronavirus to the extent within AECOM's reasonable control. AECOM will notify you in the event AECOM becomes aware of any other potential impacts to the work caused by the Coronavirus.

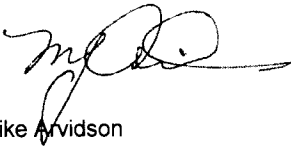
AECOM appreciates the opportunity to submit this proposal to the City. If you have any questions or require additional information, please contact Assaf Rees at [assaf.rees@aecom.com](mailto:assaf.rees@aecom.com) or 562-277-6476.

Sincerely,

AECOM Technical Services, Inc.



Assaf Rees, P.E.  
Project Manager



Mike Arvidson  
Associate Vice President

# Appendix A

## Cost Estimate

**CONTRACT 34467 - EXTENSION TO FISCAL YEARS 2022-2023**

**COST ESTIMATE**

**Groundwater Remediation and Landfill Gas Control , Monitoring, Operations, Maintenance, and Reporting**

City of Long Beach Fire Stations 7 and 17 and Davenport Park/Former Paramount Landfill

|                               | Hourly           | Fire Stations - GW Monitoring & Reporting |                      | Fire Stations - GW Remediation OM&MR |                      | Fire Station 7 ISCO Injection |                      | Davenport Park - GW Monitoring & Reporting |                     | Davenport Park - LFG Monitoring & Reporting |                      | TOTAL              |                      |
|-------------------------------|------------------|---|----------------------|--------------------------------------|----------------------|-------------------------------|----------------------|--|---------------------|---|----------------------|--------------------|----------------------|
|                               |                  | Hours                                     | Cost                 | Hours                                | Cost                 | Hours                         | Cost                 | Hours                                      | Cost                | Hours                                       | Cost                 | Hours              | Cost                 |
| <b>Labor</b>                  |                  |   |                      |                                      |                      |                               |                      |  |                     |   |                      |                    |                      |
| Engineering Sr. Manager       | \$ 200.00        |   | \$ -                 | 24                                   | \$ 4,800.00          |                               | \$ -                 |  | \$ -                |   | \$ -                 | 24                 | \$ 4,800.00          |
| Project Director              | \$ 180.00        | 2   | \$ 360.00            | 2                                    | \$ 360.00            | 2                             | \$ 360.00            | 2  | \$ 360.00           | 2   | \$ 360.00            | 10                 | \$ 1,800.00          |
| Engineering Manager           | \$ 180.00        | 144                                       | \$ 25,920.00         | 176                                  | \$ 31,680.00         | 40                            | \$ 7,200.00          | 64   | \$ 11,520.00        | 168   | \$ 30,240.00         | 592                | \$ 106,560.00        |
| Engineer IV                   | \$ 140.00        |   | \$ -                 | 24                                   | \$ 3,360.00          |                               | \$ -                 |  | \$ -                |   | \$ -                 | 24                 | \$ 3,360.00          |
| Engineer I                    | \$ 92.00         | 480                                       | \$ 44,160.00         | 352                                  | \$ 32,384.00         | 40                            | \$ 3,680.00          | 144  | \$ 13,248.00        | 384   | \$ 35,328.00         | 1400               | \$ 128,800.00        |
| Scientist IV                  | \$ 120.00        |   | \$ -                 |                                      | \$ -                 |                               | \$ -                 |  | \$ -                |   | \$ -                 | 0                  | \$ -                 |
| Scientist III                 | \$ 105.00        | 48  | \$ 5,040.00          |                                      | \$ -                 |                               | \$ -                 | 16   | \$ 1,680.00         |   | \$ -                 | 64                 | \$ 6,720.00          |
| Scientist II                  | \$ 92.00         | 96  | \$ 8,832.00          |                                      | \$ -                 | 120                           | \$ 11,040.00         |  | \$ -                | 32  | \$ 2,944.00          | 248                | \$ 22,816.00         |
| Scientist I                   | \$ 80.00         | 344                                       | \$ 27,520.00         |                                      | \$ -                 | 8                             | \$ 640.00            | 96   | \$ 7,680.00         | 156   | \$ 12,480.00         | 604                | \$ 48,320.00         |
| Technical Manager             | \$ 120.00        | 4   | \$ 480.00            | 4                                    | \$ 480.00            | 4                             | \$ 480.00            | 4  | \$ 480.00           | 4   | \$ 480.00            | 20                 | \$ 2,400.00          |
| Technician IV                 | \$ 92.00         |   | \$ -                 | 416                                  | \$ 38,272.00         |                               | \$ -                 |  | \$ -                |   | \$ -                 | 416                | \$ 38,272.00         |
| Technician III                | \$ 80.00         |   | \$ -                 | 416                                  | \$ 33,280.00         |                               | \$ -                 |  | \$ -                |   | \$ -                 | 416                | \$ 33,280.00         |
| DB Director                   | \$ 160.00        | 96  | \$ 15,360.00         | 8                                    | \$ 1,280.00          |                               | \$ -                 | 32   | \$ 5,120.00         | 32  | \$ 5,120.00          | 168                | \$ 26,880.00         |
| GIS III                       | \$ 92.00         | 48  | \$ 4,416.00          | 4                                    | \$ 368.00            |                               | \$ -                 | 8  | \$ 736.00           | 16  | \$ 1,472.00          | 76                 | \$ 6,992.00          |
| Drafter I                     | \$ 70.00         | 64  | \$ 4,480.00          | 16                                   | \$ 1,120.00          |                               | \$ -                 | 32   | \$ 2,240.00         | 32  | \$ 2,240.00          | 144                | \$ 10,080.00         |
| Project Administrator II      | \$ 80.00         | 48  | \$ 3,840.00          |                                      | \$ -                 | 8                             | \$ 640.00            | 8  | \$ 640.00           | 8   | \$ 640.00            | 72                 | \$ 5,760.00          |
| <b>Labor Subtotal</b>         |                  | <b>1374</b>                               | <b>\$ 140,408.00</b> | <b>1442</b>                          | <b>\$ 147,384.00</b> | <b>222</b>                    | <b>\$ 24,040.00</b>  | <b>406</b>                                 | <b>\$ 43,704.00</b> | <b>834</b>                                  | <b>\$ 91,304.00</b>  | <b>4278</b>        | <b>\$ 446,840.00</b> |
| <b>Subcontractors</b>         | <b>Unit Cost</b> | <b>#Sets/Units</b>                        | <b>Cost</b>          | <b>#Sets/Units</b>                   | <b>Cost</b>          | <b>#Sets/Units</b>            | <b>Cost</b>          | <b>#Sets/Units</b>                         | <b>Cost</b>         | <b>#Sets/Units</b>                          | <b>Cost</b>          | <b>#Sets/Units</b> | <b>Cost</b>          |
| Analytical Laboratory - Water |                  |   | \$ 34,770.00         |                                      | \$ -                 |                               | \$ -                 |  | \$ 9,182.00         |   | \$ -                 | 0                  | \$ 43,952.00         |
| Analytical Laboratory - Air   | \$ 354.75        |   | \$ -                 |                                      | \$ -                 |                               | \$ -                 |  | \$ -                | 16  | \$ 5,676.00          | 16                 | \$ 5,676.00          |
| Traffic Control - 1/2 Day     | \$ 660.00        |   | \$ -                 |                                      | \$ -                 |                               | \$ -                 | 4  | \$ 2,640.00         |   | \$ -                 | 4                  | \$ 2,640.00          |
| Waste Disposal - GW           | \$ 336.00        | 8   | \$ 2,688.00          |                                      | \$ -                 |                               | \$ -                 | 4  | \$ 1,344.00         |   | \$ -                 | 12                 | \$ 4,032.00          |
| Subsurface Surveying          | \$ 840.00        |   | \$ -                 |                                      | \$ -                 | 1                             | \$ 840.00            |  | \$ -                |   | \$ -                 | 1                  | \$ 840.00            |
| Source Testing                | \$ 20,000.00     |   | \$ -                 |                                      | \$ -                 |                               | \$ -                 |  | \$ -                |   | \$ -                 | 0                  | \$ -                 |
| ISCO Injection                | \$ 5,082.22      |   | \$ -                 |                                      | \$ -                 | 10                            | \$ 50,822.20         |  | \$ -                |   | \$ -                 | 10                 | \$ 50,822.20         |
| Subtotal Subcontractors       |                  |   | \$ 37,458.00         |                                      | \$ -                 |                               | \$ 51,662.20         |  | \$ 13,166.00        |   | \$ 5,676.00          |                    | \$ 107,962.20        |
| Markup                        | 10%              |   | \$ 3,745.80          |                                      | \$ -                 |                               | \$ 5,166.22          |  | \$ 1,316.60         |   | \$ 567.60            |                    | \$ 10,796.22         |
| <b>Total Subcontractors</b>   |                  |   | <b>\$ 41,203.80</b>  |                                      | <b>\$ -</b>          |                               | <b>\$ 56,828.42</b>  |  | <b>\$ 14,482.60</b> |   | <b>\$ 6,243.60</b>   |                    | <b>\$ 118,758.42</b> |
| <b>Other Direct Costs</b>     | <b>Unit Cost</b> | <b>#Sets/Units</b>                        | <b>Cost</b>          | <b>#Sets/Units</b>                   | <b>Cost</b>          | <b>#Sets/Units</b>            | <b>Cost</b>          | <b>#Sets/Units</b>                         | <b>Cost</b>         | <b>#Sets/Units</b>                          | <b>Cost</b>          | <b>#Sets/Units</b> | <b>Cost</b>          |
| Field Rental Equipment        |                  |   | \$ 7,360.00          |                                      | \$ 6,000.00          |                               | \$ 2,739.00          |  | \$ 2,000.00         |   | \$ 3,200.00          | 0                  | \$ 21,299.00         |
| Field Materials/Supplies      | \$ 50.00         |   | \$ -                 | 24                                   | \$ 1,200.00          |                               | \$ -                 |  | \$ -                | 16  | \$ 800.00            | 40                 | \$ 2,000.00          |
| Vehicle Use                   | \$ 80.00         | 28  | \$ 2,240.00          | 104                                  | \$ 8,320.00          | 12                            | \$ 960.00            | 8  | \$ 640.00           | 16  | \$ 1,280.00          | 168                | \$ 13,440.00         |
| Sodium Persulfate (oxidant)   |                  |   | \$ -                 |                                      | \$ -                 |                               | \$ 11,365.20         |  | \$ -                |   | \$ -                 | 0                  | \$ 11,365.20         |
| Sodium Hydroxide (activator)  |                  |   | \$ -                 |                                      | \$ -                 |                               | \$ 9,260.90          |  | \$ -                |   | \$ -                 | 0                  | \$ 9,260.90          |
| City Borehole Permit          | \$ 630.00        |   | \$ -                 |                                      | \$ -                 | 1                             | \$ 630.00            |  | \$ -                |   | \$ -                 | 1                  | \$ 630.00            |
| Subtotal ODCs                 |                  |   | \$ 9,600.00          |                                      | \$ 15,520.00         |                               | \$ 24,955.10         |  | \$ 2,640.00         |   | \$ 5,280.00          |                    | \$ 57,995.10         |
| Markup                        | 10%              |   | \$ 960.00            |                                      | \$ 1,552.00          |                               | \$ 2,495.51          |  | \$ 264.00           |   | \$ 528.00            |                    | \$ 5,799.51          |
| <b>Total ODCs</b>             |                  |   | <b>\$ 10,560.00</b>  |                                      | <b>\$ 17,072.00</b>  |                               | <b>\$ 27,450.61</b>  |  | <b>\$ 2,904.00</b>  |   | <b>\$ 5,808.00</b>   |                    | <b>\$ 63,794.61</b>  |
| <b>TOTAL COST</b>             |                  |   | <b>\$ 150,968.80</b> |                                      | <b>\$ 164,456.00</b> |                               | <b>\$ 106,519.03</b> |  | <b>\$ 61,090.60</b> |   | <b>\$ 103,355.60</b> |                    | <b>\$ 629,383.03</b> |

## **Appendix B**

### **Bill Categories and Rates**

**CONTRACT 34467 - EXTENSION TO FISCAL YEARS 2022-2024  
BILL CATEGORIES AND RATES**

| <b>Level</b> | <b>Engineer</b> | <b>Scientist</b> | <b>GIS/CAD/DB</b> | <b>Technician/<br/>Admin</b> | <b>Project<br/>Management</b> |
|--------------|-----------------|------------------|-------------------|------------------------------|-------------------------------|
| I            | \$ 92.00        | \$ 80.00         | \$ 60.00          | \$ 60.00                     | –                             |
| II           | \$ 105.00       | \$ 92.00         | \$ 70.00          | \$ 70.00                     | –                             |
| III          | \$ 120.00       | \$ 105.00        | \$ 80.00          | \$ 80.00                     | –                             |
| IV           | \$ 140.00       | \$ 120.00        | \$ 92.00          | \$ 92.00                     | –                             |
| V            | \$ 160.00       | \$ 140.00        | \$ 105.00         | \$ 105.00                    | –                             |
| Manager      | \$ 180.00       | \$ 160.00        | \$ 120.00         | \$ 120.00                    | \$ 140.00                     |
| Sr. Manager  | \$ 200.00       | \$ 180.00        | \$ 140.00         | \$ 140.00                    | \$ 160.00                     |
| Director     | \$ 220.00       | \$ 200.00        | \$ 160.00         | –                            | \$ 180.00                     |
| Sr. Director | –               | –                | –                 | –                            | \$ 200.00                     |
| Principal    | –               | –                | –                 | –                            | \$ 240.00                     |



All AECOM Technical Services, Inc. officers in the United States with Board of Directors approved corporate titles of Senior Vice President or above are authorized under the bylaws of AECOM Technical Services, Inc. to execute contracts or otherwise bind the company. In addition, the individuals listed below have been authorized by the AECOM Technical Services, Inc. Board of Directors to execute contracts or otherwise bind the company within the boundaries of the noted Regions and Business Lines. Authority to sign on behalf of AECOM Technical Services, Inc., is personal to the individual so authorized; AECOM does not permit individuals so authorized to delegate their authority. Signature Authority (including the execution of contracts, contract amendments, and proposals) must in all cases conform to the then-current Americas Geography Sub-Delegations of Authority and any further sub-delegation document issued by the Region or Business Line, as applicable.

AECOM Technical Services, Inc. – Signatory List

Effective March 4, 2020

|            |             |           |                                      |                        |
|------------|-------------|-----------|--------------------------------------|------------------------|
| Abbott     | Mark        | Southeast | Greater FL/Latin America/Miami Metro | Water                  |
| Abellera   | Yvonne      | All       | All                                  | Support/Cross Services |
| Abernethy  | Robert      | Central   | Central                              | Water                  |
| AbiDargham | Antoine     | NY Metro+ | NYC Metro                            | Buildings + Places     |
| Abolt      | Bill        | All       | Infrastructure Leadership - level 5  | Power & Industrial     |
| Abs        | Michael     | All       | All                                  | Procurement            |
| Adams      | Mike        | Midwest   | Eastern Midwest                      | Environment            |
| Adams      | Robert      | Northeast | New England                          | Water                  |
| Adilman    | Aaron       | All       | Building Engineering                 | Buildings + Places     |
| Agustin    | Roy-Alan C. | Pacific   | Pacific                              | Environment            |
| A'Hara     | Allan       | All       | National Transportation              | Transportation         |
| Alberg     | Jonathan    | All       | All                                  | Environment            |
| Albrecht   | John        | Northeast | New England                          | Environment            |
| Alfonso    | Juan        | Southeast | Florida                              | PPM                    |
| Alfstad    | Kelley      | Central   | Central                              | B+P                    |
| Allwarden  | Joseph      | Northeast | Northeast                            | Transportation         |
| Amoriello  | Jeff        | Southeast | DC Metro                             | Transportation         |
| Anderson   | Francis B.  | Central   | Central                              | Buildings + Places     |
| Anthony    | Osborne     | Southeast | Mid-Atlantic                         | Transportation         |
| Arkin      | Yoav        | Southeast | Mid-Atlantic                         | Transportation         |
| Armstrong  | Glenn I     | Midwest   | Eastern Midwest                      | Environment            |
| Arvidson   | Mike        | Pacific   | Greater Southern California          | Environment            |
| Astorga    | Mack        | All       | Industrial                           | Power and Industrial   |

|             |             |            |                               |                                    |
|-------------|-------------|------------|-------------------------------|------------------------------------|
| Evans       | Charles H.  | Southeast  | Florida/Federal               | Building + Places                  |
| Everett     | Jan         | Southeast  | Greater Florida               | Transportation                     |
| Feldsher    | Theodore B. | Pacific    | Pacific                       | Water                              |
| Felt        | Wade        | DC Metro+  | DC Metro+                     | Transportation                     |
| Fenner      | Teri        | Pacific    | Southern California           | Environment                        |
| Findlen     | Suzanne     | Northeast  |                               | Power                              |
| Fink        | Ben         | DC Metro+  | DC Metro                      | Buildings + Places                 |
| Finnell     | Brian A.    | Northeast  | New England                   | Environment                        |
| Fiori       | Bruno       | Southeast  | Greater Florida               | Transportation                     |
| Fitzgerald  | Conan D.    | Southeast  | Southeast                     | Environment                        |
| Fitzwilliam | Steve       | West       | West                          | Water                              |
| Flack       | Mike        | Pacific    | Greater Southern California   | Environment                        |
| Flasz       | Aileen      | Southeast  | Panama                        | Environment                        |
| Flautt      | Aaron       | All        | All                           | Transportation                     |
| Formagus    | Jason       | Management |                               |                                    |
| Forrest     | Mike        | West       | West                          | Water                              |
| Franano     | Michael D.  | Midwest    | Central Midwest               | Environment                        |
| Francis     | Mathew      | Central    | Central                       | Water                              |
| Francisco   | Jay A.      | All        | All                           | Environment                        |
| Frauhigher  | Todd        | Central    | Central                       | Water                              |
| Free        | Lou         | Northeast  | New England                   | Transportation                     |
| Freeman     | Gary L.     | Southeast  | Southeast                     | Water                              |
| Fricke      | Rebecca     | Southeast  | DC Metro                      | Environment                        |
| Frison      | Shelly R.   | All        | All                           | Support/Cross Services/Procurement |
| Frownfelter | Jen         | All        | National Power and Industrial | Power & Industrial                 |
| Fuchs       | Randy       | Central    | Central                       | Transportation                     |
| Fulton      | David       | All        | All                           | Environment                        |
| Gaal        | Jeff        | All        | Exxon Mobil                   | Oil & Gas                          |
| Gabaldon    | Mike        | Pacific    | Pacific Sub Bus Line Support  | Water                              |
| Gaiser      | Bane L.     | Central    | Central                       | B+P                                |
| Gajwani     | Sachin      | Northeast  | NYC Metro                     | Water                              |
| Gallagher   | Judy        | All        | National Government           | Federal                            |
| Galli       | Mike        | All        | National Transportation       | Transportation                     |
| Galloway    | Steven E    | All        | PPM WEST (717)                | Construction Services              |
| Garcia      | Carlos      | Southeast  | Miami Metro                   | Transportation                     |