

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** JUNE 25, 2019

**TO:** BOARD OF DIRECTORS  
Lake Arrowhead Community Services District

**FROM:**   
AIDA HERCULES-DODARO, District Engineer

  
CATHERINE CERRI, General Manager

**SUBJECT:** APPROVE CONTRACT AMENDMENT NO. 4 FOR AS-NEEDED MATERIALS TESTING AND GEOTECHNICAL INSPECTION SERVICES WITH NINYO & MOORE

**A. RECOMMENDATION**

It is recommended that the Board of Directors:

1. Approve Amendment No. 4 to the contract with Ninyo & Moore (“N&M”) for as-needed materials testing and geotechnical inspection services; and
2. Authorize the General Manager to execute the Amendment. A copy of Amendment No. 4 is included as Attachment 1.

**B. REASON FOR RECOMMENDATION**

The District has the continued need for materials testing and geotechnical inspection services on an as-needed basis for various Capital Improvement Program (“CIP”) projects. N&M is being recommended by staff to continue these services based on their competitive fees along with their extensive experience with District projects.

**C. BACKGROUND INFORMATION**

The District has the continued need for materials testing and geotechnical inspection services to be provided on an as-needed basis for District business. Such services would include soils testing, material testing for concrete, reinforcing and structural steel, painting and coating testing and other related services related to CIP projects.

In April 2007, the Board of Directors approved an annual services contract with N&M to provide materials testing and inspection services to the District on an annual as-needed basis for the not-to-exceed amount of \$75,000.

In June 2008, the Board of Directors approved Contract Amendment No. 1 for an amount of \$75,000 for continued materials testing and inspection services.

In July 2010, the Board of Directors approved Contract Amendment No. 2 for an amount of \$75,000 for continued materials testing and inspection services.

In March 2012, the Board of Directors approved Contract Amendment No. 3 for an amount of \$75,000 for continued materials testing and inspection services.

N&M kept the same rates from 2007 until 2015 when a rate increase was requested due to an increase in prevailing wages. N&M is keeping the 2015 rates for Amendment No. 4. Refer to the exhibit included in the attached Draft of Contract Amendment No. 4.

**D. FISCAL INFORMATION**

If approved the total not-to-exceed contract amendment amount will be \$75,000 until funds are depleted. The funding sources for these inspection services will be the Wastewater Capital Improvement Fund (210) and Water Capital Improvement Fund (110).

**E. ATTACHMENTS**

Attachment 1 – Draft Contract Amendment No. 4

**FOURTH AMENDMENT TO PROFESSIONAL SERVICES CONTRACT WITH  
NINYO & MOORE FOR MATERIALS TESTING AND INSPECTION  
SERVICES**

**THIS FOURTH AMENDMENT TO THE CONTRACT** is made and entered into this 26<sup>th</sup> day of June, 2019, by and between LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT, a Public Agency, hereinafter referred to as DISTRICT, and NINYO & MOORE GEOTECHNICAL, hereinafter referred to as CONSULTANT.

**RECITALS**

A. The parties entered into that certain Contract, dated, April 20, 2007, for materials testing and geotechnical inspection services.

B. Pursuant to Section 3.5.14 of the Contract, the Contract may be amended only by written documents signed by both parties.

NOW THEREFORE, THE PARTIES AGREE AS FOLLOWS:

TERM. The term of this Contract shall extend from the date this amendment is executed, and terminate upon satisfactory completion of the required services or until the Contract amount is depleted.

COMPENSATION. Consultant shall receive compensation for all Services rendered under this Contract at the rates set forth in Exhibit "A" attached hereto and incorporated herein by reference up to an amount not to exceed \$75,000.

**IN WITNESS WHEREOF**, DISTRICT and CONSULTANT have caused this CONTRACT AMENDMENT to be duly executed on the day and year first above written.

LAKE ARROWHEAD COMMUNITY  
SERVICES DISTRICT

Signed: \_\_\_\_\_  
Catherine Cerri, General Manager

NINYO & MOORE GEOTECHNICAL

Signed: \_\_\_\_\_

**EXHIBITS:**

A. Schedule of Fees

## SCHEDULE OF FEES

### HOURLY CHARGES FOR PERSONNEL

|  |        |
|--|--------|
| Principal Engineer/Geologist/Environmental Scientist .....                     | \$ 168 |
| Senior Engineer/Geologist/Environmental Scientist .....                        | \$ 164 |
| Senior Project Engineer/Geologist/Environmental Scientist .....                | \$ 160 |
| Project Engineer/Geologist/Environmental Scientist .....                       | \$ 156 |
| Senior Staff Engineer/Geologist/Environmental Scientist .....                  | \$ 141 |
| Staff Engineer/Geologist/Environmental Scientist .....                         | \$ 128 |
| GIS Analyst .....  | \$ 114 |
| Field Operations Manager .....   | \$ 104 |
| Supervisory Technician* .....  | \$ 95  |
| Nondestructive Examination Technician*, UT, MT, LP .....                       | \$ 95  |
| Senior Field/Laboratory Technician* .....                                      | \$ 87  |
| Field/Laboratory Technician* .....   | \$ 87  |
| ACI Concrete Technician* .....   | \$ 87  |
| Concrete/Asphalt Batch Plant Inspector* .....                                  | \$ 87  |
| Special Inspector (Concrete, Masonry, Steel, Welding, and Fireproofing)* ..... | \$ 87  |
| Technical Illustrator/CAD Operator .....                                       | \$ 86  |
| Geotechnical/Environmental/Laboratory Assistant .....                          | \$ 73  |
| Information Specialist .....   | \$ 73  |
| Data Processing, Technical Editing, or Reproduction .....                      | \$ 64  |

### OTHER CHARGES

|   |                |
|---|----------------|
| Concrete Coring Equipment (includes one technician) .....                                     | \$ 160 /hr     |
| PID/FID Usage .....   | \$ 140 /day    |
| Anchor load test equipment (includes technician) .....  | \$ 97 /hr      |
| Hand Auger Equipment .....  | \$ 65 /day     |
| Inclinometer Usage .....  | \$ 40 /hr      |
| Vapor Emission Kits .....   | \$ 40 /kit     |
| Level D Personal Protective Equipment (per person per day) .....                              | \$ 30 /p/d     |
| Rebar Locator (Pachometer) .....  | \$ 30 /hr      |
| Nuclear Density Gauge Usage .....   | \$ 0 /hr       |
| Field Vehicle Usage .....   | \$ 12 /hr      |
| Direct Project Expenses .....   | Cost plus 15 % |
| Laboratory testing, geophysical equipment, and other special equipment provided upon request. |                |

### NOTES (Field Services)

For field and laboratory technicians and special inspectors, regular hourly rates are charged during normal weekday construction hours. Overtime rates at 1.5 times the regular rates will be charged for work performed outside normal construction hours and all day on Saturdays. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day or on Sundays and holidays. Lead time for any requested service is 24 hours. Field Technician rates are based on a 4-hour minimum. Special inspection rates are based on a 4-hour minimum for the first 4 hours and an 8-hour minimum for hours exceeding 4 hours. Field personnel are charged portal to portal.

\*Indicates rates that are based on Prevailing Wage Determination made by the State of California, Director of Industrial Relations on a semiannual basis. Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project.

### INVOICES

Invoices will be submitted monthly and are due upon receipt. A service charge of 1.0 percent per month may be charged on accounts not paid within 30 days.

### TERMS AND CONDITIONS

The terms and conditions of providing our consulting services include our limitation of liability and indemnities as presented in Ninyo & Moore's Work Authorization and Agreement.

## SCHEDULE OF FEES FOR LABORATORY TESTING

### Laboratory Test, Test Designation, and Price Per Test

#### Soils

|  |        |
|--|--------|
| Atterberg Limits, D 4318, CT 204 .....   | \$ 160 |
| California Bearing Ratio (CBR), D 1883 .....   | \$ 485 |
| Chloride and Sulfate Content, CT 417 & CT 422 .....  | \$ 150 |
| Consolidation, D 2435, CT 219 .....  | \$ 300 |
| Consolidation – Time Rate, D 2435, CT 219 .....  | \$ 75  |
| Direct Shear – Remolded, D 3080 .....  | \$ 325 |
| Direct Shear – Undisturbed, D 3080 .....   | \$ 275 |
| Durability Index, CT 229 .....   | \$ 165 |
| Expansion Index, D 4829, IBC 18-3 .....  | \$ 180 |
| Expansion Potential (Method A), D 4546 .....   | \$ 160 |
| Geofabric Tensile and Elongation Test, D 4632 .....  | \$ 180 |
| Hydraulic Conductivity, D 5084 .....   | \$ 330 |
| Hydrometer Analysis, D 422, CT 203 .....   | \$ 210 |
| Moisture, Ash, & Organic Matter of Peat/Organic Soils .....                                | \$ 120 |
| Moisture Only, D 2216, CT 226 .....  | \$ 35  |
| Moisture and Density, D 2937 .....   | \$ 45  |
| Permeability, CH, D 2434, CT 220 .....   | \$ 255 |
| pH and Resistivity, CT 643 .....   | \$ 155 |
| Proctor Density D 1557, D 698, CT 216, &<br>AASHTO T-180 (Rock corrections add \$80) ..... | \$ 200 |
| R-value, D 2844, CT 301 .....  | \$ 275 |
| Sand Equivalent, D 2419, CT 217 .....  | \$ 90  |
| Sieve Analysis, D 422, CT 202 .....  | \$ 120 |
| Sieve Analysis, 200 Wash, D 1140, CT 202 .....   | \$ 100 |
| Specific Gravity, D 854 .....  | \$ 100 |
| Thermal Resistivity (ASTM 5334, IEEE 442) .....  | \$ 880 |
| Triaxial Shear, C, D, D 4767, T 297 .....  | \$ 430 |
| Triaxial Shear, C, U, w/pore pressure, D 4767, T 2297 per pt. .....                        | \$ 365 |
| Triaxial Shear, C, U, w/o pore pressure, D 4767, T 2297 per pt. .....                      | \$ 210 |
| Triaxial Shear, U, U, D 2850 .....   | \$ 155 |
| Unconfined Compression, D 2166, T 208 .....  | \$ 110 |
| Wax Density, D 1188 .....  | \$ 100 |

#### Roofing

|  |        |
|--|--------|
| Roofing Tile Absorption, (set of 5), C 67 .....    | \$ 210 |
| Roofing Tile Strength Test, (set of 5), C 67 ..... | \$ 210 |

#### Masonry

|  |        |
|--|--------|
| Brick Absorption, 24-hour submersion, C 67 .....       | \$ 50  |
| Brick Absorption, 5-hour boiling, C 67 .....           | \$ 60  |
| Brick Absorption, 7-day, C 67 .....                    | \$ 65  |
| Brick Compression Test, C 67 .....                     | \$ 50  |
| Brick Efflorescence, C 67 .....                        | \$ 50  |
| Brick Modulus of Rupture, C 67 .....                   | \$ 45  |
| Brick Moisture as received, C 67 .....                 | \$ 40  |
| Brick Saturation Coefficient, C 67 .....               | \$ 55  |
| Concrete Block Compression Test, 8x8x16, C 140 .....   | \$ 65  |
| Concrete Block Conformance Package, C 90 .....         | \$ 485 |
| Concrete Block Linear Shrinkage, C 426 .....           | \$ 135 |
| Concrete Block Unit Weight and Absorption, C 140 ..... | \$ 60  |
| Cores, Compression or Shear Bond, CA Code .....        | \$ 60  |
| Masonry Grout, 3x3x6 prism compression, C 39 .....     | \$ 35  |
| Masonry Mortar, 2x4 cylinder compression, C 109 .....  | \$ 35  |
| Masonry Prism, half size, compression, C 1019 .....    | \$ 120 |
| Masonry Prism, Full size, compression, C 1019 .....    | \$ 175 |

#### Concrete

|   |          |
|---|----------|
| Compression Tests, 6x12 Cylinder, C 39 .....                        | \$ 25    |
| Concrete Mix Design Review, Job Spec .....                          | \$ 155   |
| Concrete Mix Design, per Trial Batch, 6 cylinder, ACI .....         | \$ 825   |
| Concrete Cores, Compression (excludes sampling), C 42 .....         | \$ 60    |
| Drying Shrinkage, C 157 .....                                       | \$ 275   |
| Flexural Test, C 78 .....   | \$ 55    |
| Flexural Test, C 293 .....  | \$ 60    |
| Flexural Test, CT 523 .....   | \$ 65    |
| Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI ..... | \$ 275   |
| Jobsite Testing Laboratory .....                                    | Quote    |
| Lightweight Concrete Fill, Compression, C 495 .....                 | \$ 45    |
| Petrographic Analysis, C 856 .....                                  | \$ 1,200 |
| Restrained Expansion of Shrinkage Compensation .....                | \$ 270   |
| Splitting Tensile Strength, C 496 .....                             | \$ 90    |
| 3x6 Grout, (CLSM), C39 .....  | \$ 45    |
| 2x2x2 Non-Shrink Grout, C 109 .....                                 | \$ 45    |

#### Reinforcing and Structural Steel

|   |        |
|---|--------|
| Fireproofing Density Test, UBC 7-6 .....  | \$ 60  |
| Hardness Test, Rockwell, A-370 .....  | \$ 55  |
| High Strength Bolt, Nut & Washer Conformance,<br>per assembly, A-325 .....          | \$ 130 |
| Mechanically Spliced Reinforcing Tensile Test, ACI .....                            | \$ 105 |
| Pre-Stress Strand (7 wire), A 416 .....   | \$ 155 |
| Chemical Analysis, A-36, A-615 .....  | \$ 135 |
| Reinforcing Tensile or Bend up to No. 11, A 615 & A 706 .....                       | \$ 55  |
| Structural Steel Tensile Test: Up to 200,000 lbs.<br>(machining extra), A 370 ..... | \$ 80  |
| Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI .....                       | \$ 60  |

#### Asphalt Concrete

|  |          |
|--|----------|
| Asphalt Mix Design, Caltrans .....                               | \$ 2,400 |
| Asphalt Mix Design Review, Job Spec .....                        | \$ 165   |
| Extraction, % Asphalt, including Gradation, D 2172, CT 382 ..... | \$ 240   |
| Film Stripping, CT 302 .....                                     | \$ 110   |
| Hveem Stability and Unit Weight CTM or ASTM, CT 366 .....        | \$ 215   |
| Marshall Stability, Flow and Unit Weight, T-245 .....            | \$ 240   |
| Maximum Theoretical Unit Weight, D 2041 .....                    | \$ 135   |
| Unit Weight sample or core, D 2726, CT 308 .....                 | \$ 100   |
| Air Voids, T-269 .....   | \$ 50    |
| Voids in Mineral Aggregate, (VFA) CT Sp-2 .....                  | \$ 50    |
| Voids filled with AC, (VMA) CT Sp-2 .....                        | \$ 50    |
| Dust Proportioning, (VFA) CT Sp-2 .....                          | \$ 50    |

#### Aggregates

|  |        |
|--|--------|
| Absorption, Coarse, C 127 .....                                  | \$ 40  |
| Absorption, Fine, C 128 .....                                    | \$ 40  |
| Clay Lumps and Friable Particles, C 142 .....                    | \$ 110 |
| Cleaness Value, CT 227 .....                                     | \$ 135 |
| Crushed Particles, CT 205 .....                                  | \$ 155 |
| Durability, Coarse, CT 229 .....                                 | \$ 145 |
| Durability, Fine, CT 229 .....                                   | \$ 145 |
| Los Angeles Abrasion, C 131 or C 535 .....                       | \$ 200 |
| Organic Impurities, C 40 .....                                   | \$ 60  |
| Potential Reactivity of Aggregate (Chemical Method), C 289 ..... | \$ 430 |
| Sand Equivalent, CT 217 .....                                    | \$ 100 |
| Sieve Analysis, Coarse Aggregate, C 136 .....                    | \$ 115 |
| Sieve Analysis, Fine Aggregate (including wash), C 136 .....     | \$ 115 |
| Sodium Sulfate Soundness (per size fraction), C 88 .....         | \$ 175 |
| Specific Gravity, Coarse, C 127 .....                            | \$ 85  |
| Specific Gravity, Fine, C 128 .....                              | \$ 95  |

Special preparation of standard test specimens will be charged at the technician's hourly rate.

Ninyo & Moore is accredited to perform the AASHTO equivalent of many ASTM test procedures.