



City of Ketchum  
City Hall

May 18, 2020

Mayor Bradshaw and City Councilors  
City of Ketchum  
Ketchum, ID 83340

Mayor Bradshaw and City Councilors:

**Recommendation to approve Purchase Order 20471  
For Soil Borings**

**Recommendation and Summary**

Staff is recommending the council approve Purchase Order 20471 with Atlas Materials Testing & Inspection for soil borings for the new fire station and adopt the following motion:

**"I move to approve Purchase Order 20471 for \$6,303 with Atlas Materials Testing & Inspection and authorize the Mayor to sign the PO."**

The reasons for the recommendation are as follows:

- The City of Ketchum fire station project is progressing and a recent ground penetrating radar test has encouraged further review of certain areas of the project site.
- The City of Ketchum does not have the required skills and equipment to perform the testing in-house.

**Introduction and History**

The City of Ketchum voters approved construction of a fire station on November 5, 2019. As the design of the station has progressed, the project team performed sub-surface investigations to minimize the uncertainty involved in the project. A recent ground penetrating radar test indicated areas of disturbance on certain portions of the site and the team agreed that further review would be prudent.

**Analysis**

The City of Ketchum is seeking to engage the services of a testing and inspection firm to perform soil borings in six locations on the project site. The firm will provide a soils report upon conclusion of the borings for analysis by the project team.

**Sustainability Impact**

There is no sustainability impact from this action.

**Financial Impact**

The project is being funded by a voter-approved \$11.5 million bond sale and this amount is included within that budget.

**Attachments**

- Attachment A: Purchase Order 20471
- Atlas MTI Quote



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City Hall

## Purchase Order

Number: 20471  
Date: 5/18/2020

Vendor: ATLAS Materials Inspection and Testing  
2283 Wright Avenue  
Twin Falls, ID 83301

Quote Ref: See Attached

Quantity	Description	Total Cost
1	MTI Field Investigation	856.00
1	Drilling Subcontractor	4,372.00
1	Limited Report	665.00
1	Sieve Analysis	190.00
1	Atterberg Limits	220.00
<b>Total</b>		<b>6,303.00</b>

The City of Ketchum is a tax-exempt political subdivision of the State of Idaho.

Please confirm this City of Ketchum Purchase Order with Grant Gager, Director Finance & Internal Services, at [ggager@ketchumidaho.org](mailto:ggager@ketchumidaho.org) or (208) 726-3841.

Please Coordinate Work With:

City of Ketchum  
Attn: Grant Gager  
480 East Avenue N  
Box 2315  
Ketchum, ID 83340

Order Submitted By:

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Mayor Neil Bradshaw

**GRANT GAGER  
CITY OF KETCHUM  
PO Box 2315  
Ketchum, ID 83340**

**PHONE: (208) 727-5073  
E-MAIL: ggager@ketchumidaho.org**

**Re:    Subsurface Geotechnical Investigation Proposal – Revision #1  
      Ketchum Fire Station  
      Saddle Road  
      Ketchum, Idaho  
      Latitude: 43.6884077, Longitude: -114.3710762**

Dear Mr. Gager:

Materials Testing & Inspection (MTI) would like to thank you for requesting a proposal from our firm to provide a geotechnical investigation for this project.

The subsurface investigation will be conducted to provide information needed in design of the proposed project. The project is expected to consist of a two-story fire station structure that is approximately 12,500 square-foot in size. The site to be developed is approximately 1.0 acre. In addition, paved areas will be developed for the project. Drainage is expected to be directed to onsite infiltration facilities. Location and size of the infiltration facilities are unknown at this time. Revisions may be required based on final design requirements.

Exploration and recommendations will be prepared under the supervision of a registered professional engineer. Qualified personnel will perform all field work. In accordance with your request, our proposed subsurface exploration will include the following services:

#### **Subsurface Soils Investigation**

- Underground public utility locate services will be contacted prior to commencement of field work. The client, property owner, and/or developer are responsible for private utility locates as MTI cannot be held responsible for the cost of replacement of utility services.
- As requested by the City of Ketchum, borings will be advanced to the following depths and locations: 1 boring to 10 feet in the proposed parking lot and 4 borings to 10 feet in the proposed building location. Borings will be backfilled at completion of exploration. Excavated soils will be left onsite in an inconspicuous location. If needed, these soils can be transported offsite for an additional fee.
- Soil will be classified in the field in accordance with applicable standards, including ASTM D2488.
- Representative soil samples will be collected and transported to our laboratory for additional testing, per ASTM or other recognized standards.

#### **Geotechnical Engineering Report: Option 1 – Limited Report**

- Results of field and laboratory testing will be included.
- Final logs will be provided based on field classification, laboratory test data, and classification of soils per ASTM D2487. These logs will incorporate all subsurface soil and/or rock profile properties that may affect engineering conclusions.
- A summary of soil conditions encountered will be provided.
- Approximate exploration locations will be provided on a site map.

### **Geotechnical Engineering Report: Option 2 – Full Report**

- Information regarding regional geology will be provided.
- A seismic site evaluation will be conducted, and recommended Site Class and Seismic Design Parameters will be provided.
- Potential geologic hazards will be identified.
- Results of field and laboratory testing will be included.
- Final logs will be provided based on field classification, laboratory test data, and classification of soils per ASTM D2487. These logs will incorporate all subsurface soil and/or rock profile properties that may affect engineering conclusions.
- A summary of soil conditions encountered will be provided.
- Approximate exploration locations will be provided on a site map.
- Hydrology
  - A review of localized groundwater conditions will be included.
  - Estimated soil infiltration rates will be provided based on soil classification.
- Foundations and Floor Slabs-on-Grade
  - Bearing capacity for applicable foundation types will be provided.
  - Recommended frost embedment depths will be included.
  - Foundation and floor slab subgrade preparation and drainage recommendations will be presented.
- Applicable pavement section recommendations will be provided.
- Fill material type and placement recommendations will be presented.
- Recommendations for construction activities will be included.

MTI will proceed with the work on the basis of verbal authorization; however, please sign and return a copy of this proposal. MTI anticipates issuing our findings and recommendations within 10 business days from the last date field work is performed or soil samples are obtained. **The attached Project Data Sheet provides us with values used in our design calculations. Please consult the project design team, complete the sheet to the fullest extent possible, and return at your earliest convenience.** Unless otherwise noted, MTI will provide only a PDF copy of the final report.

MTI appreciates the opportunity to offer its services to you and looks forward to working with you on this project. If you have any questions regarding this proposal or if MTI can be of further assistance, please contact us at (208) 376-4748.

Respectfully Submitted,  
Materials Testing & Inspection



Ethan Salove, P.E.  
Geotechnical Engineer

Attachments:

Services and Fees  
Project Data Sheet

Environmental Services     Geotechnical Engineering     Construction Materials Testing     Special Inspections

It is proposed that the cost of these services be invoiced on a lump sum basis as outlined below.

	Unit Rate	Units	Subtotal
<b>FIELD INVESTIGATION</b>			
MTI Field Investigation Fees			\$856.00
Drilling Subcontractor Fees			\$4,372.00
<b>REPORTING</b>			
Option 1 - Limited Report Fees			\$665.00
Option 2 - Full Report Fees			\$1,510.00
<b>LABORATORY TESTING</b>			
Sieve Analysis (ASTM C117/C136)	\$95.00	2	\$190.00
Atterberg Limits (ASTM D4318)	\$110.00	2	\$220.00
<b>MISCELLANEOUS</b>			
Groundwater Monitoring, per trip	\$400.00	0	\$0.00
Meetings/Consultation, per hour (if needed)	\$90.00	0	\$0.00
<b>REPORT OPTION 1 - PROJECT TOTAL:</b>			<b>\$6,303.00</b>
<b>REPORT OPTION 2 - PROJECT TOTAL:</b>			<b>\$7,148.00</b>

The individual signing below represents and warrants that he/she has full authority to enter into this Agreement on behalf of CLIENT. By signing below, CLIENT is acknowledging and agreeing to [Materials Testing and Inspection's Terms and Conditions](#) (or available upon request). If the individual below lacks such authority, he/she shall be personally responsible for payment of obligations under this Agreement. IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date indicated below.

**Materials Testing & Inspection**

**City of Ketchum**

Signature: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

- Environmental Services     Geotechnical Engineering     Construction Materials Testing     Special Inspections

PROJECT DATA SHEET GEOTECHNICAL INVESTIGATION & RECOMMENDATIONS

PLEASE PROVIDE THE FOLLOWING WHEN RETURNING THIS DATA SHEET:

1. PROJECT NAME: \_\_\_\_\_
2. PROJECT LOCATION: \_\_\_\_\_
3. YOUR JOB NO: \_\_\_\_\_ PURCHASE ORDER NO: \_\_\_\_\_
4. PROJECT MANAGER: \_\_\_\_\_ TELEPHONE NO: \_\_\_\_\_
5. DESCRIPTION OF PROJECT: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

MAXIMUM WALL LOADS (KLF)? \_\_\_\_\_ MAXIMUM ISOLATED COLUMN (KIPS)? \_\_\_\_\_  
 MULTI STORY BUILDING? IF YES, HOW MANY STORIES? \_\_\_\_\_  
 BASEMENT AND/OR RETAINING WALLS PLANNED? IF YES, PROVIDE DEPTH. \_\_\_\_\_  
 ON SITE DISPOSAL OF STORM WATER? IF YES, PROVIDE TYPE OF FACILITY. \_\_\_\_\_  
 PLANNED FINISHED FLOOR ELEVATION COMPARED TO EXISTING GRADE? \_\_\_\_\_  
 PAVEMENT SECTION REQUIRED? \_\_\_\_\_ 10 OR 20 YEAR DESIGN? \_\_\_\_\_  
 DAILY TRUCK TRAFFIC? \_\_\_\_\_ SEPARATE TRUCK ACCESS AREAS? \_\_\_\_\_  
 WHAT LOCAL JURISDICTION(S) WILL GOVERN THE FOLLOWING?  
     PAVEMENTS: \_\_\_\_\_ STORM WATER FACILITIES: \_\_\_\_\_  
     KLF = KIPS PER LINEAR FEET; KIPS = KILO POUNDS (1,000 LBS)

6. DISTRIBUTION OF REPORTS (IF PAPER COPIES ARE REQUIRED, INDICATE QUANTITY):

<p>( ) PAPER COPY    ( ) PDF COPY          To: _____          ATTN: _____          _____          EMAIL: _____</p>	<p>( ) PAPER COPY    ( ) PDF COPY          To: _____          ATTN: _____          _____          EMAIL: _____</p>
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<p>( ) PAPER COPY    ( ) PDF COPY          To: _____          ATTN: _____          _____          EMAIL: _____</p>	<p>( ) PAPER COPY    ( ) PDF COPY          To: _____          ATTN: _____          _____          EMAIL: _____</p>
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7. INVOICE PHYSICAL ADDRESS: \_\_\_\_\_  
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- INVOICE EMAIL ADDRESS(ES): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

8. PRESENT OWNER \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- SITE CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
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