

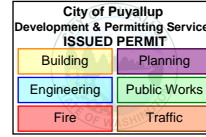


PRMH20260510

April 30, 2026
Project No. 20180090E004

Full-Sized legible color report must be on site and made available by the Permittee for all inspections.

Puyallup School District
323 – 12th Street NW
Puyallup, Washington 98371



**City of Puyallup
Building
REVIEWED
FOR
COMPLIANCE**
BSnowden
05/11/2026
7:50:21 AM

Attention: Les Gerstmann

Subject: Limited Geotechnical Report
Foundation Design Recommendations for Propane Tank
Puyallup School District Logistics Support Center
1501 – 39th Avenue SW
Puyallup, Washington

References: Subsurface Exploration and Geotechnical Engineering Evaluation
LSC Warehouse Addition
1501 - 39th Avenue SW
Puyallup, Washington
Project No. 180090E001
May 30, 2018
Associated Earth Sciences, Inc.

Subsurface Exploration, Infiltration Testing, and
Design Infiltration Rate Determination
LSC Warehouse Addition
1501 - 39th Avenue SW
Puyallup, Washington
Project No. 180090E001
June 21, 2018
Associated Earth Sciences, Inc.

Exhibit D – Site Plan
New Propane Dispensing Station
August 25, 2020
Sitts and Hill Engineers, Inc.

Dear Les Gerstmann:

Associated Earth Sciences, Inc. (AESI) has prepared this limited geotechnical report with foundation design recommendations for the new propane tank. Our work included review of existing subsurface exploration data in the referenced reports, review of current plans, and preparation of

this letter report. We are familiar with the project through completion of previous studies at the site.

This letter-report has been prepared for the exclusive use of the Puyallup School District and their agents for specific application to this project. Our services have been performed in accordance with generally accepted geotechnical engineering practices in effect in this area at the time our report was prepared. No other warranty, express or implied, is made.

PROJECT DESCRIPTION

The Logistics Support Center (LSC) complex site is located at 1501 39th Avenue SW in Puyallup, Washington and consists of Pierce County parcel 0419043122 (See Figure 1). The site currently includes the Puyallup School Districts Kessler Center (a multipurpose student service center), a Technology Support Center, parking areas, portable buildings, and a bus parking lot. Referenced plans include construction of an above-ground 4,875-gallon propane tank located at the north end of the facility in a relatively level asphalt paved school bus parking area (See Figure 2). The propane tank legs will be supported on two individual pad footings near each end of the tank. We understand that a permit review correction letter recently received from the City of Puyallup dated April 22, 2026 for the new above-ground propane tank requests that a geotechnical report be submitted that confirms an allowable soil bearing pressure of 2,000 pounds per square foot is suitable for foundation design.

SUBSURFACE CONDITIONS

Explorations were advanced in the vicinity of the new propane tank as part of previous AESI studies completed in 2006 and 2018. Our explorations (EP-1 and EB-3W) shown on Figure 2 generally encountered loose to medium dense Vashon recessional lacustrine deposits to a depth of about 20 feet overlying Vashon recessional outwash and dense to very dense, Vashon advance outwash.

SITE CONDITIONS

The location of the proposed propane tank is currently asphalt paved and serves as parking for school buses. Site grading activities and pavement placement for the bus parking have occurred since our exploration pit EP-1 was completed. We anticipate that the near surface soils will be similar to our previous nearby explorations but were compacted to a dense and non-yielding condition prior to pavement section installation and are at least medium dense.

FOUNDATION DESIGN RECOMMENDATIONS

In our opinion, spread footings may be utilized for support of the propane tank when founded on medium dense site soils or structural fill placed over these natural sediments. Prior to placement of foundations or structural fill, the natural sediments should be compacted to a firm and unyielding condition.

For footings bearing directly on medium dense native soils or AESI-approved structural fill, an allowable soil bearing pressure of 2,000 pounds per square foot (psf) may be used for design purposes, including both dead and live loads. An increase of one-third may be used for short-term seismic loading. All footings must penetrate to the prescribed stratum, and no footings should be founded in loose, organic, or existing fill soils.

Anticipated settlement of footings founded as described above should be less than 1 inch. However, disturbed soil not removed from footing excavations prior to footing placement could result in increased settlements. All footing areas should be observed by AESI prior to placing concrete to verify that the design bearing capacity of the soils has been attained and that construction conforms with the recommendations contained in this report.

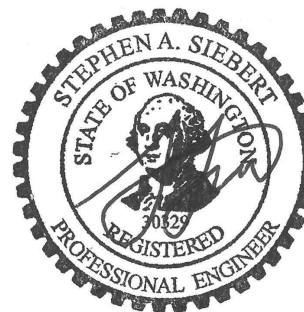
CLOSURE

We appreciate the opportunity to be of continued service on this project. If you have any questions, please do not hesitate to call.

Sincerely,
ASSOCIATED EARTH SCIENCES, INC.
Kirkland, Washington



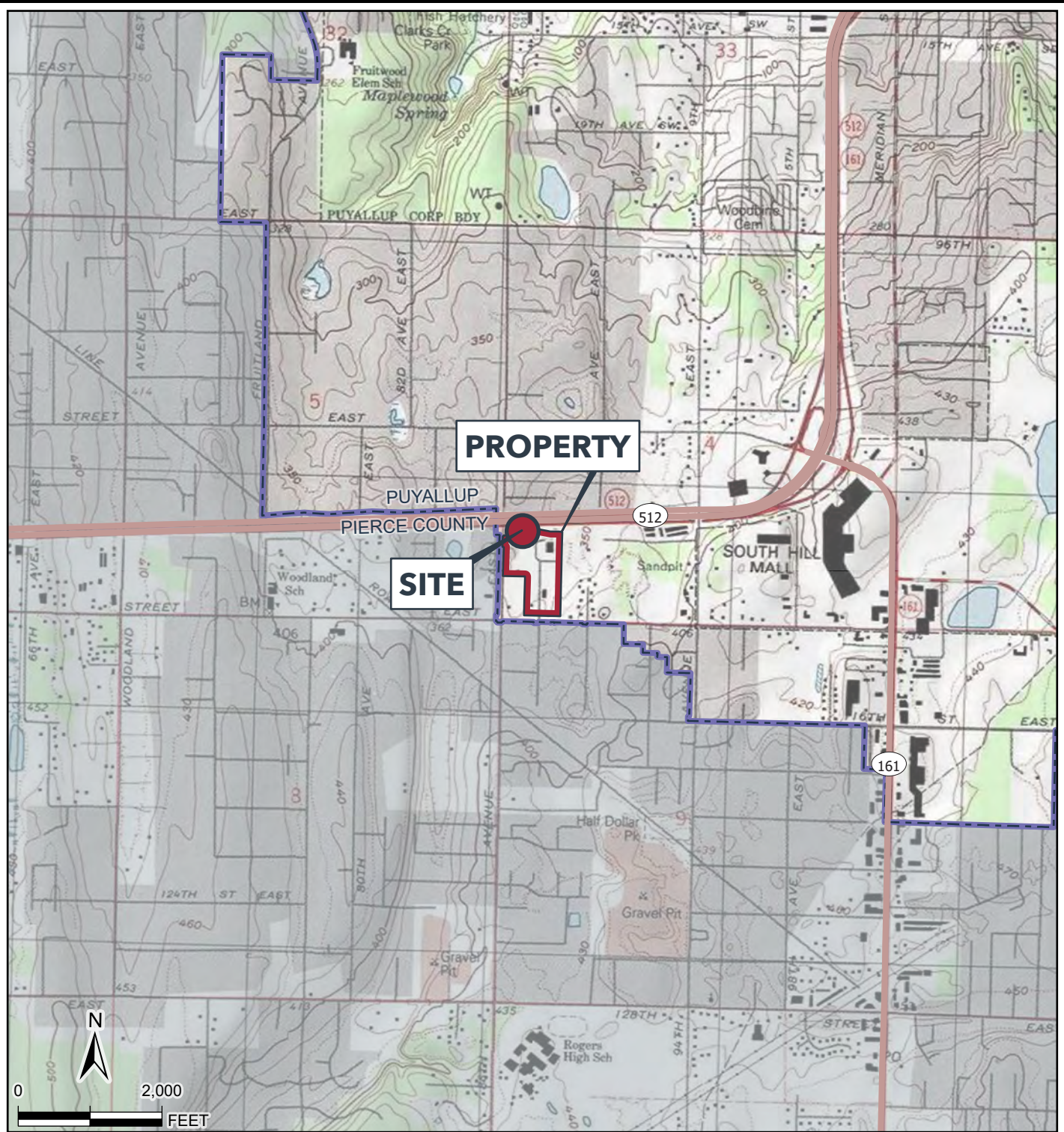
Bruce Guenzler, L.G., L.E.G.
Principal Engineering Geologist



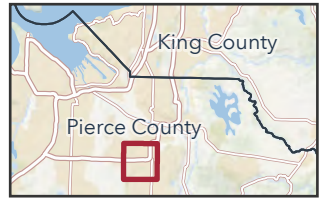
Stephen A. Siebert, P.E.
Senior Associate Geotechnical Engineer

Attachments: Figure 1 – Vicinity Map
Figure 2 – Existing Site and Explorations

G:\GIS\Projects\18100090_LSC Warehouse Addn.aprx | 20180090E004_F1_VM_LSC Warehouse Addn.aprx | 20180090E004_F1_VM_LSC Warehouse Addn | 2026-04-29 | mntop



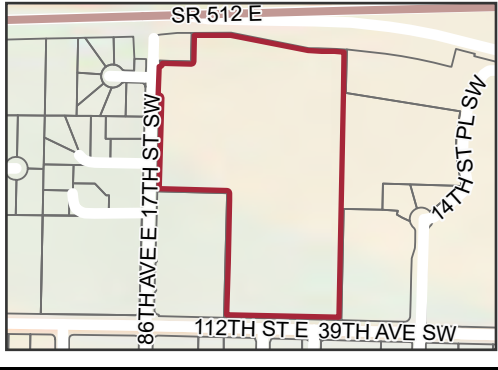
COUNTY LOCALE



ESRI, USGS, NATIONAL GEOGRAPHIC, DELORME, NATURALVUE, I-CUBED, GEBCO, ARCGIS ONLINE BASEMAP, WADOT STATE ROUTES 24K (12/20), PIERCE CO: PARCELS, ROADS (8/25).

NOTE: LOCATION AND DISTANCES SHOWN ARE APPROXIMATE. BLACK AND WHITE REPRODUCTION OF THIS COLOR ORIGINAL MAY REDUCE ITS EFFECTIVENESS AND LEAD TO INCORRECT INTERPRETATION.

LOCATION



VICINITY MAP

PSD LOGISTICS SUPPORT CENTER
PUYALLUP, WASHINGTON

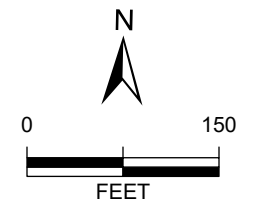
PROJECT NO. 20180090E004	DATE 4/26	FIGURE 1
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©AESI GIS, Project: 2018180090 LSC Warehouse Adm PRJ, apr180090E004 F2 ES_LSC Warehouse Adm.aprx | 20180090E004 F2 ES_LSC Warehouse Adm | 2025-04-29 | mtop



LEGEND

- PROPERTY
- SITE
- EXPLORATION TYPE (YEAR)
- EXPLORATION PIT (2004)
- EXPLORATION PIT (2005)
- ⬡ INFILTRATION TEST (2005)
- EXPLORATION PIT (2006)
- EXPLORATION BORING (2018)
- EXPLORATION PIT (2018)
- ▲ MONITORING WELL (2018)
- ⊙ PIT DRAIN INFILTRATION TEST (2018)
- EXPLORATION BORING (2019)
- ▲ MONITORING WELL (2019)
- ⬡ INFILTRATION TEST (2019)
- CONTOUR 10 FT
- CONTOUR 2 FT
- STREAM
- CITY BOUNDARY
- PARCEL
- WETLAND



DATA SOURCES/REFERENCES:
PIERCE COUNTY: PARCELS, ROADS, CITY BOUNDARY (8/25). AERIAL IMAGE: USDA FARM SERVICE AGENCY, NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023. WADOT STATE ROUTES 24K (12/20). WA DNR LIDAR: PIERCE 2020 ACQUIRED: APRIL AND JUNE 2020, CELL SIZE 1'. CONTOURS DERIVED FROM LIDAR. WETLAND AREA BASED ON SKETCH FROM GRETTIE ASSOCIATES, 2019.

BLACK AND WHITE REPRODUCTION OF THIS COLOR ORIGINAL MAY REDUCE ITS EFFECTIVENESS AND LEAD TO INCORRECT INTERPRETATION. LOCATION AND DISTANCES SHOWN ARE APPROXIMATE.



EXISTING SITE AND EXPLORATIONS

PSD LOGISTICS SUPPORT CENTER
PUYALLUP, WASHINGTON

PROJECT NO. 20180090E004	DATE 4/26	FIGURE 2
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