

**City of Fredericksburg**  
**Building Services Division**  
 Soils Report Form

APPLICANT NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SITE ADDRESS: \_\_\_\_\_ GPIN #: \_\_\_\_\_  
 NAME OF SUBDIVISION: \_\_\_\_\_ BUILDING/STRUCTURE TYPE: \_\_\_\_\_

**SOIL TEST RESULTS**

GEOTECHNICAL COMPANY NAME: \_\_\_\_\_ PHONE #: \_\_\_\_\_  
 EXPLORATION METHOD USED: \_\_\_\_\_ NUMBER OF TESTS PERFORMED: \_\_\_\_\_  
 LOCATION(S) OF TEST METHODS ON: \_\_\_\_\_  
 WERE THE TESTS PERFORMED IN THE SAME LOCATION OF THE PROPOSED STRUCTURE?: \_\_\_\_\_ YES \_\_\_\_\_ NO  
 WHAT DEPTH WAS ACHIEVED WITH THE TEST METHOD (IF APPLICABLE)? \_\_\_\_\_  
 IS THE PROPOSED LOCATION A FILL AREA? \_\_\_\_\_ YES \_\_\_\_\_ NO  
 WAS GROUNDWATER ENCOUNTERED? \_\_\_\_\_ YES \_\_\_\_\_ NO  
 AT WHAT DEPTH WAS GROUNDWATER ENCOUNTERED? \_\_\_\_\_ 24 HR WATER TABLE IF KNOWN \_\_\_\_\_  
 UNIFIED SOIL CLASSIFICATION ENCOUNTERED/ AT DEPTH (WORST CASE):

_____ GM _____ DEPTH	_____ SC _____ DEPTH	
_____ GW _____ DEPTH	_____ GC _____ DEPTH	_____ MH _____ DEPTH
_____ GP _____ DEPTH	_____ SM _____ DEPTH	_____ ML-CL _____ DEPTH
_____ SW _____ DEPTH	_____ SM-SC _____ DEPTH	
_____ SP _____ DEPTH	_____ ML _____ DEPTH	

ALLOWABLE BEARING (PSF) \_\_\_\_\_  
 EQUIVALENT FLUID PRESSURE (PSF) \_\_\_\_\_

SPECIFY OTHER SOIL TYPE IF NOT LISTED ABOVE: \_\_\_\_\_  
 ACID SOILS: \_\_\_\_\_ NONE \_\_\_\_\_ pH LEVEL **Attach (sealed) remediation plan to this form if the PH is potentially detrimental.**  
 THE SITE IS FREE OF EVIDENCE OF SULFIDE SOIL IN ACCORDANCE WITH FREDERICKSBURG'S SOILS POLICY \_\_\_\_\_ YES \_\_\_\_\_ NO  
 SHRINK SWELL TEST INDICATES (POTENTIAL): \_\_\_\_\_ NONE \_\_\_\_\_ LOW  
 SWELL INDEX PRESSURE: \_\_\_\_\_ MODERATE \_\_\_\_\_ HIGH

**ENGINEERS SEAL**

**Sealing of this document certifies that all information submitted is accurate and that the engineer of record performed/ supervised all soil sampling, testing, evaluation and execution of this report.**

**City of Fredericksburg**  
**Building Services Division**  
 Soils Report Form

BASED ON THE SOIL TEST RESULTS (CHECK APPROPRIATE):

- The foundation design **indicated on the construction drawings** meet/ exceed the requirements set forth in the current editions of the Uniform Statewide Building Code, the International Residential Code, and the International Building Code. (Designer/ contractor must complete **checklist "A"** and seal each applicable page of this document).
- Because the soil conditions are beyond the parameters outlined in the USBC/ IRC/IBC the proposed construction requires and engineered foundation design (Engineer must complete **checklist "B"** and seal each applicable page of this document).

**CHECKLIST A**

THIS SECTION MUST BE COMPLETED WHEN CONSTRUCTION PLANS MEET OR EXCEED THE PRESCRIPTIVE CODE REQUIREMENTS AS RELATED TO THE FINDINGS OF THE SOILS ANALYSIS FINDINGS. THE **CONSTRUCTION PLANS MUST ACCOUNT FOR ALL CONSIDERATIONS IN THE CHECKLIST BELOW.** (CHECK WHERE APPROPRIATE):

DESIGN LOAD BEARING FOR:

PERIMETER FOUNDATION FOOTINGS

SLAB

INTERMEDIATE AND PIER FOOTINGS

WALL THICKNESS

(FOR LATERAL EARTH PRESSURE AND UNBALANCED SOIL LOAD)

FOOTING DEPTH

FOOTING WIDTH

MONOLITHIC/ TURN DOWN SLAB DESIGN

WALL CONSTRUCTION REINFORCEMENT

FOOTING WIDTH

FOOTING THICKNESS

PROJECTION

PIER SIZE

PIER HEIGHT

SLAB THICKNESS

FROST DEPTH

DESIGN FOR USBC R602.10.6

**IMPORTANT:** WHEN USING THIS OPTION, ALL NOTES AND DETAILS ON THE CONSTRUCTION DRAWINGS WILL CLEARLY CORRESPOND WITH THE SOILS ANALYSIS AS THEY RELATE TO USBC/IRC/IBC REQUIREMENTS. **REQUIREMENTS WITHIN THE IRC/IBC/USBC ARE NOT LIMITED TO THE ABOVE LISTED CRITERIA.**

**I HAVE REVIEWED THE CONSTRUCTION DRAWINGS AND FIND THAT THEY SATISFY THE REQUIREMENTS WITHIN THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE.**

**DESIGNER/ CONTRACTOR:** \_\_\_\_\_

**City of Fredericksburg**  
**Building Services Division**  
Soils Report Form

**CHECKLIST B**

THIS SECTION MUST BE COMPLETED WHEN AN **ENGINEERED** FOUNDATION IS REQUIRED. IT IS IMPORTANT THAT THE ENGINEERED FOUNDATION SYSTEM ACCOUNTS FOR ALL OF THE LISTED CRITERIA BELOW.

THE ENGINEERED FOUNDATION SYSTEM IS: \_\_\_\_\_ INCORPORATED IN THE CONSTRUCTION DRAWINGS  
\_\_\_\_\_ DETAILED AS AN ATTACHMENT

THE PROPOSED FOUNDATION DESIGN ACCOUNTS FOR ALL OF THE FOLLOWING FACTORS AND CONSIDERATIONS:

- |                          |                                       |
|--------------------------|---------------------------------------|
| ___ EXPANSIVE SOIL       | ___ SLAB DESIGN                       |
| ___ HIGH WATER TABLE     | ___ SLAB REINFORCEMENT                |
| ___ EXISTING FILL        | ___ FOOTING REINFORCEMENT             |
| ___ ENGINEERED FILL      | ___ SURCHARGE FROM SLOPE OR IMBALANCE |
| ___ SWELL INDEX PRESSURE |                                       |

UPLIFT DESIGN FOR:

- |  |   |
|--|---|
| ___ BEARING CAPACITY OF SOIL             | ___ FOOTING                               |
|  | ___ WALL                                  |
| LATERAL PRESSURE ON:                     | ___ SLAB                                  |
| ___ FOOTING                              | ___ PIERS                                 |
| ___ WALLS                                | ___ FOOTING REINFORCEMENT                 |
| ___ PIERS                                | ___ PIER HEIGHT                           |
| ___ FOOTING DEPTH                        | ___ PIER SIZE                             |
| ___ FOOTING THICKNESS                    | ___ SLAB THICKNESS                        |
| ___ FOOTING WIDTH                        | ___ MONOLITHIC SLAB DESIGN                |
| ___ WALL THICKNESS                       |   |
| ___ WALL REINFORCEMENT (AND ORIENTATION) | ___ COMPLETE BACKFILL SHEET IF APPLICABLE |

ENGINEERS SEAL

Sealing of this document certifies that all information submitted is accurate and that the engineer of record performed/ supervised all soil sampling, testing, evaluation and execution of this report.

**City of Fredericksburg**  
**Building Services Division**  
Soils Report Form

Certain soil types and conditions are not outlined in the International Residential Code (non-prescriptive) and the International Building Code. If native (on site) soils are deemed unsuitable for backfill against foundation walls or for footing support the contractor, in coordination with the soils engineer, may choose to utilize borrowed or engineered fill material. When this is the case, a registered design professional shall oversee and certify all borrowed or engineered fill. This form must be completed, sealed, and submitted for approval prior to final inspection. Please check all applicable items.

\_\_\_ The proposed construction is to be placed on a fill pad. (Please attach approved engineered pad certification with this form).

\_\_\_ The proposed construction is on a site composed of expansive soils.

\_\_\_ The proposed construction is on a site composed of soils with bearing capability less than that which is specified in the construction drawings.

\_\_\_ Other condition that cannot satisfy the requirements within the International Residential Code or the International Building Code (please explain):

---

---

---

---

---

---

---

Sealing this document certifies that **all** soil on site is suitable for the proposed construction as specified on the construction drawings. This includes all undisturbed soil to support footings, backfill against foundation walls, borrowed fill and fill sites.

ENGINEERS SEAL

