Stafford County

Department of Public Works

Residential Soils Report Form

APPLICANT NAME:_____DATE:_____

SITE ADDRESS:_____TAX MAP, LOT AND PARCEL:_____

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:_____

WHERE 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):

___GW _____DEPTH

___GP _____DEPTH

___SW _____DEPTH

___SP _____DEPTH

___GM _____DEPTH

___GC _____DEPTH

___SM _____DEPTH

___SM-SC_____DEPTH

___ML _____DEPTH

___SC _____DEPTH

___MH _____DEPTH

___ML-CL _____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 THE STAFFORD COUNTY 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.

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BASED ON THE SOIL TEST RESULTS (CHECK APPROPRIATE):

_____The foundation design **indicated on the construction drawings** meet/ exceed the requirements set forth in the Uniform Statewide Building Code and the International Residential Code 2006 edition. (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 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. 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 602.10.6

IT IS IMPORTANT THAT WHEN USING THIS OPTION THAT ALL NOTES AND DETAILS ON THE CONSTRUCTION DRAWINGS CLEARLY CORRESPOND WITH SOILS ANALYSIS AS THEY RELATE TO USBC/IRC REQUIREMENTS. **REQUIREMENTS WITHIN THE IRC/ 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:_____

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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

____HIGH WATER TABLE

____EXISTING FILL

____ENGINEERED FILL

____SWELL INDEX PRESSURE

____BEARING CAPACITY OF SOIL

LATERAL PRESSURE ON:

- ____FOOTING
- ____WALLS
- ____PIERS

____FOOTING DEPTH

____FOOTING THICKNESS

____FOOTING WIDTH

____WALL THICKNESS

____WALL REINFORCEMENT(AND ORIENTATION)

____SLAB DESIGN

____SLAB REINFORCEMENT

____FOOTING REINFORCEMENT

____SURCHARGE FROM SLOPE OR IMBALANCE

UPLIFT DESIGN FOR

- ____FOOTING
- ____WALL
- ____SLAB
- ____PIERS

____FOOTING REINFORCEMENT

____PIER HEIGHT

____PIER SIZE

____SLAB THICKNESS

____MONOLITHIC SLAB DESIGN

____COMPLETE BACKFILL SHEET IF APPLICABLE

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Certain soil types and conditions are not outlined in the International Residential Code (non- prescriptive). 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 on site for inspection 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 can not satisfy the requirements within the IRC International Residential 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