

Appendix B:

Addendum Geotechnical Report, Montevallo, August 2005

**PREPARED FOR
PHOENIX DEVELOPMENT, INC.**

August 1, 2005

**ADDENDUM GEOTECHNICAL
REPORT
MONTEVALLO
WOODINVILLE, WASHINGTON**

ES-0067

**Earth Solutions NW, LLC
2603 – 151st Place Northeast, Redmond, Washington 98052
Ph: 425-284-3300 Fax: 425-284-2855
Toll Free: 866-336-8710**



Earth Solutions NW LLC

August 1, 2005
ES-0067.001

- Geotechnical Engineering
- Construction Monitoring
- Environmental Sciences

Phoenix Development, Inc.
16108 Ash Way, Suite 201
Lynnwood, Washington 98087

Attention: Ms. Loree Quade

Dear Ms. Quade:

Earth Solutions NW, LLC (ESNW) has prepared this addendum geotechnical report for the proposed residential development. The purpose of this report was to provide additional subsurface data in the vicinity of the proposed storm water detention vault. For continuity, logs for all the test sites on the property and the lab data have been included in this supplement report. A revised site plan illustrating the approximate locations of the test sites, and the locations of the recent test site has also been included.

The following information regarding our findings at the additional test site has also been presented as part of the narrative portion of the Environmental Impact Statement (EIS) prepared for the proposed development.

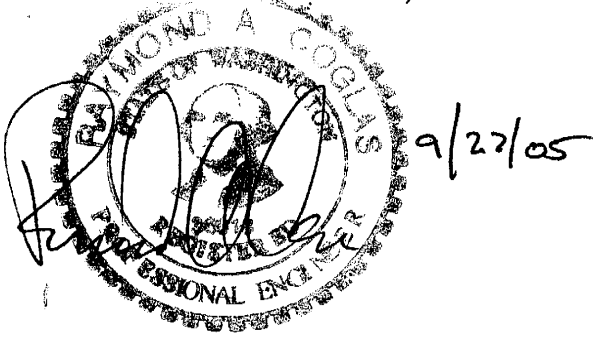
Site Characterization

Subsurface conditions at the Montevallo property were explored by excavating thirteen (13) test pits. The test pit logs for the Montevallo site are included in Appendix A of this addendum geotechnical report. The referenced geologic maps of the Bothell area indicate the site is underlain by glacial till (Qvt) deposits. The native soils encountered at our test pit locations are generally consistent with glacial till deposits. The Soil Survey of King County indicates the site is underlain by Alderwood gravelly sandy loam, 6 to 15 percent slopes (AgC). Groundwater seepage is associated with relatively shallow perched zones. A relatively deep test excavation recently completed in the vicinity of the proposed storm water vault (ESNW TP-1) did not encounter persistent or chronic groundwater seepage conditions. Soil conditions at depth are characterized as very dense.

We trust the information provided in this supplement report meets your current needs. If you have any questions or if additional information is needed, please call.

Sincerely,

EARTH SOLUTIONS NW, LLC



EXPIRES 7/29/2006
Raymond A. Coglas, P.E.
Principal

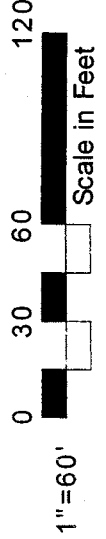
Attachments: Plate 1 - Test Pit Location Plan (7/1/05)
 Appendix A - Test Pit Logs

cc: Huckell/Weinman Associates, Inc.
 Mr. Chris Lawson



Drwn. By	GLS
Checked By	RAC
Date	7/1/05
Proj. No.	0067
Plate	1

156th AVENUE N.E.



NOTE: This plate may contain areas of color. ESNW cannot be responsible for any subsequent misinterpretation of the information resulting from black & white reproductions of this plate.

NOTE: The graphics shown on this plate are not intended for design purposes or precise scale measurements, but only to illustrate the approximate test locations relative to the approximate locations of existing and/or proposed site features. The information illustrated is largely based on data provided by the client at the time of our study. ESNW cannot be responsible for subsequent design changes or interpretation of the data by others.

LEGEND

- ESTP-1 Approximate Location of ESNW Test Pit, Proj. No. ES-0067, June 2005
- TP-1 Approximate Location of ECI Test Pit, Proj. No. E-11363, Sept. 2004
- 22 Subject Site
- 22 Proposed Lot Number
- Approximate Location of Proposed Storm Water Vault
- Existing Building

APPENDIX A
TEST PIT LOGS
ES-0067

Earth Solutions NW_{LLC}

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

DUAL SYMBOLS are used to indicate borderline soil classifications.

The discussion in the text of this report is necessary for a proper understanding of the nature of the material presented in the attached logs.



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2603 151st Pl. NE
Redmond, WA 98052
Telephone: 4252843300
Fax: 4252842855

TEST PIT NUMBER TP-1ESNW

PAGE 1 OF 1

CLIENT Phoenix Development PROJECT NAME Montevallo
PROJECT NUMBER 0067-00 PROJECT LOCATION Woodinville, Washington
DATE STARTED 6/14/05 COMPLETED 6/14/05 GROUND ELEVATION 434' TEST PIT SIZE _____
EXCAVATION CONTRACTOR NW Excavating GROUND WATER LEVELS:
EXCAVATION METHOD _____ AT TIME OF EXCAVATION ---
LOGGED BY SEP CHECKED BY RAC AT END OF EXCAVATION ---
NOTES Depth of Topsoil & Sod 1.5': grass AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0				
5		SM		Brown gray silty SAND with gravel, loose, moist -seepage encountered
10		SM		6.0 Brown silty SAND with gravel, dense, moist -seepage encountered -cobbles 10" by 8" -seepage encountered (light)
15		ML		13.0 Gray sandy SILT with gravel, very dense, moist -too dense to continue with excavator
				15.5 Test pit terminated at 15.5 feet below existing grade. Light groundwater seepage encountered at 4.0, 8.0 and 11.0 feet during excavation. Bottom of test pit at 15.5 feet.

Test Pit Log

Project Name: Montevallo			Sheet 1 of 1	
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-1	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 478'	
Notes:				

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 10" grass
		↓	1		TPSL	Brown topsoil
	8.1	↓	2		SM	Light brown silty SAND, loose, moist -trace gravel
	8.5	↓	3		SM	Tan silty fine SAND with gravel, medium dense, moist -iron oxide staining -becomes gray, dense
		↓	4			
		↓	5			-increase moisture
	10.1	↓	6		SM	Gray silty fine SAND, dense, moist -trace gravel -becomes very dense
		↓	7			Test pit terminated at 7 feet below existing grade. No groundwater encountered during excavation. NOTE: Test pit excavated by Northwest Excavating with Rubber-Tired Backhoe. Elevations estimated from topo map by Triad Associates.



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Geotechnical Engineers, Geologists & Environmental Scientists

Test Pit Log
Montevallo
Woodinville, Washington

Proj. No. 11363	Dwn. GAP	Date 9/24/04	Checked ELW	Date 9/24/04	Plate
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Subsurface conditions depicted represent our observations at the time and location of this exploratory hole, modified by engineering tests, analysis and judgment. They are not necessarily representative of other times and locations. We cannot accept responsibility for the use or interpretation by others of information presented on this log.

TEST PIT LOG 11363.GPJ ECI.GDT 9/27/04

Test Pit Log

Project Name: Montevallo			Sheet 1	of 1
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-2	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 465'	

Notes:

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 10" grass
		↓			TPSL	Brown topsoil
	15.1	↓	1		SM	Reddish brown silty fine SAND, loose, moist
			2			-trace gravel
	11.5		3			-becomes gray, medium dense
			4			-iron oxide staining
			5			-becomes dense
			6		SM	-increase moisture
	9.0		7			Gray silty fine SAND with gravel, dense, moist
			8			-becomes very dense
						Test pit terminated at 8.5 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
Montevallo
Woodinville, Washington

Proj. No. 11363	Dwn. GAP	Date 9/24/04	Checked ELW	Date 9/24/04	Plate
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TEST PIT LOG 11363.GPJ ECI.GDT 9/24/04

Test Pit Log

Project Name: Montevallo			Sheet 1		of 1		
Job No. 11363		Logged by: ELW		Date: 8/26/04		Test Pit No.: TP-3	
Excavation Contactor: Northwest Excavating					Ground Surface Elevation: 457'		
Notes:							

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 10" grass
		↓	1		TPSL	Brown topsoil
	22.6		2		SM	Reddish brown silty fine SAND, loose, moist
	13.3		3			-contains gravel - 42.8% fines
			4			-becomes gray, medium dense
			5			-iron oxide staining, becomes moist to wet
			6			-trace gravel
	11.3		7			-becomes dense
			8			
			9			-contains sand lenses
						-contains gravel
						-becomes very dense
						Test pit terminated at 9.5 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
Montevallo
Woodinville, Washington

Proj. No. 11363	Dwn. GAP	Date 9/24/04	Checked ELW	Date 9/24/04	Plate
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TEST PIT LOG 11363.GPJ ECI.GDT 9/27/04

Test Pit Log

Project Name: Montevallo			Sheet 1 of 1	
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-4	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 434'	

Notes:

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 16" grass
		↓ ↓	1		TPSL	Brown topsoil
	12.3		2		SM	Reddish brown silty fine SAND, loose, moist -contains gravel
	9.3		3		SM	Gray silty fine SAND with gravel, medium dense, moist -iron oxide staining -becomes dense
	8.0		4			
			5			
			6			-becomes very dense
			7			
			8			
Test pit terminated at 8.5 feet below existing grade. No groundwater encountered during excavation						



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Test Pit Log
Montevallo
Woodinville, Washington

Proj. No. 11363	Dwn. GAP	Date 9/24/04	Checked ELW	Date 9/24/04	Plate
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TEST PIT LOG 11363.GPJ ECI.GDT 9/27/04

Test Pit Log

Project Name: Montevallo			Sheet 1	of 1
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-5	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 445'	

Notes:

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 16" grass
		↓ ↓ ↓	1		TPSL	Brown topsoil
	11.2		2		SM	Reddish brown silty fine SAND, loose, moist
	12.1		3			-becomes gray, dense, iron oxide staining
			4			-contains gravel
	17.7		5			-decrease fine, becomes moist to wet
			6			-iron oxide staining
			7			
			8			
	10.7		9			-becomes very dense
			10			-contains gravel
						Test pit terminated at 10 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
Montevallo
Woodinville, Washington

Proj. No. 11363	Dwn. GAP	Date 9/24/04	Checked ELW	Date 9/24/04	Plate
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TEST PIT LOG 11363.GPJ ECI.GDT 9/27/04

Test Pit Log

Project Name: Montevallo			Sheet 1	of 1
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-6	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 455'	

Notes:

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 5" grass
		↓			TPSL	Brown topsoil
	16.2		1		SM	Reddish brown silty fine SAND, loose, moist
			2			-trace gravel
			3			-becomes tan
			4			-becomes gray, medium dense
			5			-iron oxide staining to 4'
	9.7		6			
			7			-becomes dense, trace gravel
			8			-reduced fines, increase moisture
	10.9					-increase fines
						-trace gravel
						Test pit terminated at 8.5 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
Montevallo
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TEST PIT LOG 11363.GPJ ECLGDT 9/27/04

Test Pit Log

Project Name: Montevallo			Sheet 1 of 1	
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-7	
Excavation Contractor: Northwest Excavating			Ground Surface Elevation: 438'	
Notes:				

General Notes	W (%)	Graphic Symbol	Depth Ft. Sample	USCS Symbol	Surface Conditions: Topsoil & sod 12" grass
		↓ ↓	1	TPSL	Brown topsoil
	24.5		2	SM	Reddish brown silty fine SAND, loose, moist to wet -contains gravel
	11.8		3		-becomes gray, medium dense, moist -iron oxide staining
			4		-fine to medium grained sand - contains gravel
			5		-becomes dense
			6		-increase fines
			7		-becomes very dense
			8		-trace gravel
	11.0				Test pit terminated at 8 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
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Proj. No. 11363	Dwn. GAP	Date 9/24/04	Checked ELW	Date 9/24/04	Plate
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Test Pit Log

Project Name: Montevallo					Sheet 1 of 1		
Job No. 11363		Logged by: ELW		Date: 8/26/04		Test Pit No.: TP-8	
Excavation Contactor: Northwest Excavating					Ground Surface Elevation: 453'		
Notes:							
General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 12" grass	
	7.7 6.8		1 2 3 4 5 6 7 8 9		TPSL SM SM	Brown topsoil	
						Tan silty SAND with gravel, loose, moist	
						-becomes gray medium dense, iron oxide staining	
						-becomes dense	
						Gray silty fine SAND, dense, moist	
						-trace gravel	
	11.1					Test pit terminated at 9.5 feet below existing grade. No groundwater encountered during excavation	



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Test Pit Log
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TEST PIT LOG 11363.GPJ ECI.GDT 9/24/04

Test Pit Log

Project Name: Montevallo			Sheet 1	of 1
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-9	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 449'	

Notes:

General Notes	W (%)	Graphic Symbol	Depth Ft. Sample	USCS Symbol	Surface Conditions: Topsoil & sod 2" grass
	22.5		1	SM	Tan silty fine SAND, loose, moist -contains roots -becomes reddish brown -contains gravel
	9.6		2		
			3	SM	Gray silty fine SAND with gravel, medium dense, moist -iron oxide staining to 8'
			4		
			5		-becomes dense
			6		
			7		
	14.4		8	SM	Gray silty fine to medium SAND, medium dense, wet -contains gravel - 40.4% fines
			9		
			10		
			11		-becomes medium dense to dense
			12		
			13	SM	-contains sand lens Gray silty fine to medium SAND with gravel, dense, wet
	12.3				Test pit terminated at 13.5 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
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TEST PIT LOG 11363.GPJ ECI.GDT 9/24/04

Test Pit Log

Project Name: Montevallo			Sheet 1	of 1
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-10	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 463'	
Notes:				

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 8" grass
		↓			TPSL	Brown topsoil
	7.6	↓	1		SM	Reddish brown silty fine SAND, loose, moist
			2			-becomes tan, medium dense
			3		SM	Gray silty fine SAND with gravel, medium dense, moist
	8.9		4			-iron oxide staining
			5		SM	-becomes dense
			6			Gray silty fine SAND, dense, moist
			7			-trace gravel
	10.5		8			
						Test pit Terminated at 8 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
Montevallo
Woodinville, Washington

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Test Pit Log

Project Name: Montevallo			Sheet 1	of 1
Job No. 11363	Logged by: ELW	Date: 8/26/04	Test Pit No.: TP-11	
Excavation Contactor: Northwest Excavating			Ground Surface Elevation: 459'	

Notes:

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 14" grass
	15.9		1		TPSL	Brown topsoil
			2		SM	Reddish brown silty fine SAND, loose, moist -contains gravel -becomes gray, medium dense -Iron oxide staining -becomes dense -decrease in fines, becomes moist to wet -iron oxide staining -becomes wet - sand lens -becomes moist to wet -trace gravel
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
	11.0					



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Test Pit Log
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TEST PIT LOG 11363.GPJ ECL.GDT 9/27/04

Test Pit Log

Project Name: Montevallo			Sheet 1	of 1
Job No. 11363	Logged by: ELW	Date: 8/24/04	Test Pit No.: TP-12	
Excavation Contractor: Northwest Excavating			Ground Surface Elevation: 465'	

Notes:

General Notes	W (%)	Graphic Symbol	Depth Ft.	Sample	USCS Symbol	Surface Conditions: Topsoil & sod 6" grass
					TPSL	Brown topsoil
			1		SM	Brown silty fine SAND with gravel, loose, moist (Fill)
					SM	Reddish brown silty fine SAND, loose, moist
	9.2		2			
			3			-becomes gray medium dense
						-iron oxide staining
	9.1		4			-becomes dense
						-trace gravel
			5			- 45.3% fines
			6			
						
			7			-trace gravel
	10.7					Test pit terminated at 7.5 feet below existing grade. No groundwater encountered during excavation



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Test Pit Log
Montevallo
Woodinville, Washington

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TEST PIT LOG 11363.GPJ ECI.GDT 9/24/04

