

Area SEATTLE

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Site Address S. ANDOVER AND RAINIER AVE

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- Title page with the following information:**
 - Company (Author) name*
 - Report date*
 - Project Name*
 - Company's job number*
 - Site address*
- Executive Summary / Introduction of the report
- Table of contents
- Project Location Map / Vicinity Map
- Site / Exploration Plans, Boring Location Plans**
- Cross-sections / Subsurface profiles
- Exploration Logs**
 - Monitoring Well Logs
 - Cone Penetrometer Logs
 - Groundwater Elevation Tables / Data

Includes data from Previous Reports

No new data /data review

Missing Data /Illegible Data
Explanation _____

Comments: LOGS ONLY FROM #2018

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Layers rw

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15487

0-1150/0-115-
4050 Rainer Ave S.

0605992

2018

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MAR 2 - 1987

DEPT. OF CONSTRUCTION & LAND USE
LAND USE DIVISION

4058 RAINIER AV S



CASCADE GEOTECHNICAL



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A DIVISION OF CASCADE TESTING LABORATORY, INC.
12919 N.E. 126TH PLACE KIRKLAND, WASHINGTON 98034
KIRKLAND: (206) 821-5080 SEATTLE: (206) 525-6700

February 13, 1987

Job No. 851-16G

Baugh Industrial Contractors, Incorporated
P.O. Box C14135
Seattle, Washington 98114

Attention: Scott Dahlgren

Reference: Addendum to Soils Report
Darigold Plant Addition
4058 Rainier Avenue South
Seattle, Washington

Dear Mr. Dahlgren:

At your request we have done further soils testing and analysis at the Darigold site. This report presents our findings and recommendations. Except for the changes in the pile design, the findings and recommendations contained in our previous report are still applicable.

INTRODUCTION

In January of 1985, Cascade Geotechnical did a preliminary soils study for the Darigold addition, Cert. No. 851-16G, dated January 30, 1985. Three (3) thirty (30) foot borings were done for that study. We recommended that driven timber or steel piles be used to support the building. At the time of our original study, the building had not been designed.

Subsequent to our original study, the building was designed and 110 ton auger cast piling were selected for foundation support. Three (3) additional borings were drilled by our firm at the site in order to determine the required pile penetration. The additional borings were drilled on February 10 and 11, 1987, to a depth of

CASCADE GEOTECHNICAL

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about sixty (60) feet each. Standard Penetration Test samples (ASTM D-1586) were taken at five (5) foot intervals. A site plan showing the boring locations and the logs of the test borings are presented in Appendix A and B respectively.

SOIL CONDITIONS

From six (6) to ten (10) feet of fill was found in the borings. The fill varies from very loose to very dense and is a non-homogeneous mixture of silt and sand which contains lesser amounts of gravel and organic silt. A layer of organic silt which is probably the old topsoil was found beneath the fill.

Beneath the fill and organic silt is a varied sequence of silt, clay and sand. In Test Borings 1, 4 and 5, medium stiff to stiff silty clay and clayey silt were found to depths of twenty (20) to forty (40) feet below grade. In test boring 4, about ten (10) feet of dense to very dense sand was found within the silt and clay sequence.

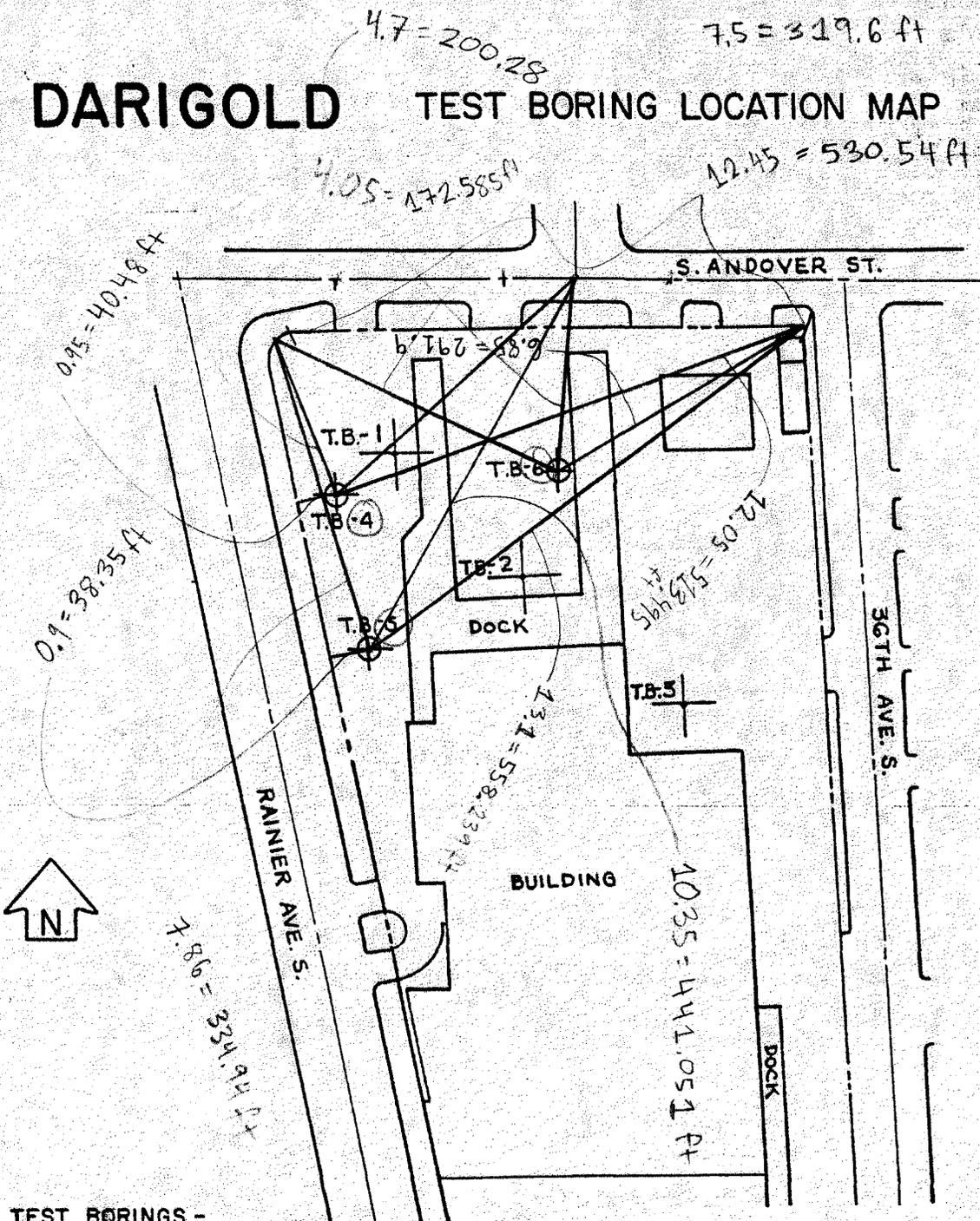
Beneath the above units is a thick unit of very dense silty to gravelly sand which was encountered at depths from ten (10) to forty (40) feet below grade. This very dense sand was found to the termination depth of all borings except Test Boring 1 and Test Boring 6. In Test Boring 1 the sand unit was not encountered and in Test Boring 6 a very hard, sandy silt was found below the sand.

RECOMMENDATIONS

Eighteen (18) inch auger cast piles which penetrate from thirty-five (35) to fifty (50) feet into the native soils will carry the planned load of 110 tons each. More detailed recommendations for the pile installation follows.

DARIGOLD

TEST BORING LOCATION MAP



TEST BORINGS -
01/28/85

TEST BORINGS -
02/10 & 11/87

1" ~ 100'



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Date 02/10/87	Job No. 851 - 16G	Dwn. By HLA	Eng./Geo. SF
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USC	STRATA	DEPTH	STANDARD PENETRATION		DESCRIPTION	WATER TABLE	
			BLOWS / FOOT				
					ASPHALT & CRUSHED ROCK.		
					39	FILL; GRAY GRAVELLY SAND WITH SOME SILT, DAMP.	
		6.0'		6		FILL; AS ABOVE, MOIST.	
				4		FILL; AS ABOVE, WET.	
		10.0'		5		CLAYEY SILT; GRAY, MEDIUM STIFF, WITH FINE SAND LENSES, WET (ML).	
				9			
		15.0'			SILT; GRAY, HARD, MOIST, (ML)		
				36			
		20.0'				CLAYEY SILT; GRAY, STIFF, WITH FINE SAND LENSES, WET (ML).	
				12			
		25.0'				CLAYEY SILT; AS ABOVE.	
	T.D. = 29.0'		9				

NOTES

TEST BORING LOG

DARIGOLD

Cascade Testing Laboratory, Inc.
 Engineers - Geologists
 14120 N. E. 21st Street Bellevue, Wash. 98007
 Phone 641-2573

BORING NO. 1

PAGE 1 OF 1

DATE JAN 28, 1985

CERT. NO. 851-166

DWN BY ESDT

CHKD BY SF

15487

USC	STRATA ELEV. -	DEPTH	STANDARD PENETRATION C _N (CORRECTED)		DESCRIPTION	WATER TABLE
			0	50		
					ASPHALT.	
				52	FILL; GRAY GRAVELLY SAND, WITH MINOR SILT, DAMP.	
		5.0'		16	FILL; GREEN TO BLACK, SILT & ORGANIC SILTY SAND, WITH GRAVEL, MOIST.	
		7.0'		20	GRAVELLY SAND; TAN, MEDIUM DENSE, DAMP (SW).	
		10.0'				
				46	SAND; LIGHT GRAY, DENSE, FINE, SATURATED (SP).	
		15.0'				
				54	SAND; AS ABOVE, VERY DENSE.	
		20.0'				
				61	SAND; AS ABOVE.	
		25.0'				
				86	SAND; AS ABOVE.	
		T.D. = 29.0'				

NOTES

TEST BORING LOG

DARIGOLD

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BORING NO. 2

PAGE 1 OF 1

DATE JAN. 28, 1985

CERT. NO. 851-16G

DWN BY ESDT

CHKD BY SF

USC	STRATA ELEV. -	DEPTH	STANDARD PENETRATION C _N (CORRECTED) BLOWS / FOOT	DESCRIPTION	WATER TABLE
		0		ASPHALT.	
		5.0'	14	FILL; GRAY, GRAVELLY SAND.	
		10.0'	3	FILL; DARK BROWN, CLAYEY SILT & SAND, WET.	
		15.0'	50/5	SAND; GRAY, VERY DENSE, FINE SILTY SAND & GRAVELLY SAND, SATURATED (SM).	
		20.0'	50/4	SAND; BROWN, VERY DENSE, FINE TO MEDIUM, SATURATED (SP).	
		25.0'	50/4	SAND; TAN, VERY DENSE, FINE, SATURATED (SP).	
		T.D. = 29.0'	50/5	NO RECOVERY.	

NOTES

TEST BORING LOG

DARIGOLD

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BORING NO. 3

PAGE 1 OF 1

DATE JAN. 28, 1985

CERT. NO. 851-16 G

DWN BY ESDT

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