

MALCOLM PIRNIE			WELL / BORING LOG				
STATION ID: C2001D		SITE NAME: Newhall Residential Area			PROJ. # 0284-319		
ADDRESS: 1067 Winchester Ave.		LOGGED BY: Tom Doty			DATE: 01/26/2005		
DRILL CO. NEBC of CT	DRILLER: Trent Roe		DRILLING RIG: D-53		DRILL TYPE: 4" ID		
					HSA and roller bit		
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	1	0-2	18	0-0.8' topsoil			TOPSOIL
	2	2-4	24	0.8-1.6' med-fine brown sand, ash, brick, coal 2-2.6' med fine brown sand, ash, brick, coal			DISTURBED SOIL FILL C2001DS1 collected 2-4'
	3	4-6	19	2.6-3.2" med red-brown sand/3.2-4' black fine ash 4-4.4' med red-brown sand, trace ash			C2001DS2 collected 5-7' WASTE FILL
	4	6-8	12	4.4-4.8' brown fine silty sand/4.8-5.7' ash, coal 6-6.5' ash, coal			
	5	8-10	24	6.5-7.0 red med fine sand, trace coal 8-9' coal, ash, brick frags, glass frags, tr. tan f-m sand			C2001DS3 collected 10-12' DISTURBED SOIL FILL
	6	10-12	12	9-10' brown grey silt, trace coal 10-10.7' glass, brick fragments, coal, ash, some med sand			
	7	12-14	24	10.7-11' grey med sand, trace silt 12-13' grey med fine sand, silty, tr. bricks, coal, glass frags			C2001DS4 collected 14-15' SAND
	8	14-16	12	13-14" brown med-fine sand 14-15' med fine red-brown sand			
	9	25-27	6	25-25.5' med-fine red-brown sand			TILL
	10	35-37	2	35-35.2' med-fine red brown sand, tr-gravel			
	11	45-47	3	dense glacial till			Rock encountered at 46' BEDROCK (New Haven Arkose)
				EOB - 46' Well C2001D completed 01-27-04 to a depth of 46'bgs constructed of 2" PVC with 10 slot screen from 46'bgs to 36'bgs, #1 Sand pack from 46'bgs to 36'bgs, bentonite seal from 36'bgs to 34'bgs bentonite high solids grout from 34'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.			

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: E2001S/E2001D		SITE NAME: Newhall Residential Area		PROJ. # 0284-319		
ADDRESS: 155 Morse St.		LOGGED BY: Garett Ferguson		DATE: 06/10/2004		
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr.	DRILLING RIG: CME 75		DRILL TYPE: 4" ID		
				HSA and roller bit		
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION		
	1	0-2	24	6" topsoil and root structures	0.0	
	2	2-4	18	18" med-fine to fine red brown sands, loose	0.0	
	3	4-6	20	18" crs to fine red brown sands, loose	0.0	
		6-8	NA	20" crs to fine red brown sands, loose	0.0	
		8-10	NA	NO SAMPLE COLLECTED AT THIS INTERVAL	NA	SAND
	4	10-12	18	NO SAMPLE COLLECTED AT THIS INTERVAL	NA	
				10" med-fine red brown sands	0.0	
				2" dark brown fine sand and silt		
				6" med-crs red brown sands		
	5	15-17	19	8" med-crs red brown sands	0.0	
				11" med-crs red brown sands with silt and trace clay glacial till material, moist		TILL
	6	20-22	16	16" med-crs red brown sands with silt and trace clay glacial till material, wet	0.0	Water Level at 20'
	7	25-27	16	16" med-crs red brown sands with silt and trace clay glacial till material, wet	NA	TILL
	8	30-32	20	20" med-crs red brown sands with silt and trace clay glacial till material, wet	NA	
	9	35-37	19	19" med-crs red brown sands with silt and trace clay glacial till material, wet, with fragmented sandstone	NA	
				Auger refusal for E2001S at 37'3"		WEATHERED BEDROCK (New Haven Arkose)
				Auger refusal for E2001D at 46' Continued drilling with 4" roller bit.		BEDROCK

MALCOLM PIRNIE				WELL / BORING LOG			
STATION ID: E2001S/E2001D		SITE NAME: Newhall Residential Area		PROJ. # 0284-319			
ADDRESS: 155 Morse St.		LOGGED BY: Garrett Ferguson		DATE: 06/10&28/04			
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
						HSA and roller bit	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
				Bedrock drilled with roller bit. Red-brown arkosic sandstone cuttings.		NA NA NA	BEDROCK (New Haven Arkose)
				EOB 63' Well E2001S completed 06-09-04 to a depth of 30'bgs constructed of 2" PVC with 10 slot screen from 30'bgs to 20'bgs, #1 Sand pack from 30'bgs to 18'bgs, bentonite seal from 18'bgs to 16'bgs bentonite high solids grout from 16'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface. Well E2001D completed 06-10-04 to a depth of 63'bgs constructed of 2" PVC with 10 slot screen from 63'bgs to 53'bgs, #1 Sand pack from 63'bgs to 51'bgs, bentonite seal from 51'bgs to 46'bgs bentonite high solids grout from 46'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.			

MALCOLM PIRNIE				WELL / BORING LOG			
STATION ID: E2002D		SITE NAME: Newhall Residential Area			PROJ. # 0284-319		
ADDRESS: 499 Newhall St.		LOGGED BY: Tom Doty/Lance Kazzi			DATE: 01/27/2005		
DRILL CO. NEBC of CT	DRILLER: Trent Roe		DRILLING RIG: D-53		DRILL TYPE: 4" ID		
						HAS/roller bit/rock core	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS
				DESCRIPTION			ODOR, FLUID LOSS, ...
	1	0-2	18	0-1' top soil			TOPSOIL
	2	2-4	12	1.0-1.5' brown fine silty sand, organic material 2.0-2.1' brown fine silty sand, organic material 2.1-3.0' black ash, cinders, coal, wood fragments			DISTURBED SOIL FILL E2002DS1 collected 2-4'
	3	4-6	8	4.0-4.4' black ash, cinders, coal 4.4-4.8' wood shavings, black coal			WASTE FILL
	4	6-8	12	6-6.8' slag, coal, ash, fibrous mat-like material, red-brown 6.8-7.0' black ash			E2002DS2 collected 6-8'
	5	8-10	14	8-8.9' black coal, slag, ash 8.9-9.2' black ash			
	6	10-12	24	10.0-10.6' black coal, slag, ash, wood shavings			
	7	12-14	9	10.6-12.0' red brown med-fine sand, tr. silt, tr. gravel 12.0-12.9' red brown med-fine sand, tr. silt, tr. gravel			E2002DS3 collected 11.5-13'
	8	25-27	5	25.0-25.5' med fine red brown sand, trace gravel, trace silt			SAND
	9	35-37	8	35.0-35.7' very dense fine red sand, trace med sand			TILL
				Roller bit refusal at 38', 3" core bedrock to 50' EOB 50'			BEDROCK
				Well E2002D completed 02-02-05 to a depth of 50'bgs constructed of 2" PVC with 10 slot screen from 50'bgs to 40'bgs, #1 Sand pack from 50'bgs to 40'bgs, bentonite seal from 40'bgs to 28'bgs bentonite high solids grout from 38'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.			(New Haven Arkose)

MALCOLM PIRNIE		WELL / BORING LOG				
STATION ID: F2001SD		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 84 Bryden Terrace		LOGGED BY: Garett Ferguson			DATE: 06/18/2004	
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75	DRILL TYPE: 4" ID	
Hollow Stem Augers						
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS
				DESCRIPTION		ODOR, FLUID LOSS, ...
	1	0-2	15	15" topsoil, mf-f sands, brown 2" med-fine to fine brown sands with some fill material	0.0	DISTURBED SOIL FILL F2001SS1 Collected at 1-2'
	2	2-4	18	17" med-fine to fine brown sand with trace silt, no fill 1" black woody organic material	0.0	F2001SS2 collected at 2-3'
	3	4-6	20	3" v. dark brown-black med-fine to fine sand and silt 17" lt. brown mf-f sand with silt, trace gravel and clay	0.0	FINES
	4	6-8	18	18" med-crs red brown sands, saturated at 6'	0.0	Water Level at 6'. SAND
	5	8-10	17	10" med-crs red brown sands, saturated 7" med-fine to fine red brown sand and silt, trace clay	0.0	
	6	15-17	16	16" med-fine to fine red brown sand & silt some small gravel	0.0	TILL
	7	20-22	20	20" med-fine to very-fine red brown sand with silt	0.0	
	8	25-27	24	24" med-fine to very-fine red brown sand with silt	0.0	TILL
	9	30-32	24	12" med-fine to very-fine red brown sand with silt 12" med-fine to very-fine red brown sand with silt, trace clay increase blow counts, weathered bedrock (arkose) 34'4" auger refusal on bedrock Bedrock drilled by roller bit to 48' Cuttings red brown arkosic sandstone EOB 48' Well F2001S completed 06-18-04 to a depth of 16'bgs constructed of 2" PVC with 10 slot screen from 16'bgs to 6'bgs, #1 Sand pack from 16'bgs to 4'bgs, bentonite seal from 4'bgs to 2'bgs bentonite high solids grout from 2'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface. Well F2001D completed 06-18-04 to a depth of 48'bgs constructed of 2" PVC with 10 slot screen from 48'bgs to 38'bgs, #1 Sand pack from 48'bgs to 36'bgs, bentonite seal from 36'bgs to 34'bgs bentonite high solids grout from 34'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.	0.0	BEDROCK (New Haven Arkose)

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: F2002S		SITE NAME: Newhall Residential Area		PROJ. # 0284-319		
ADDRESS: 118 Bryden Terrace		LOGGED BY: Curt Whipple		DATE: 11/04/2004		
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr.	DRILLING RIG: CME 75	DRILL TYPE: 4" ID			
						Hollow Stem Augers
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION	PID (PPM)	
	1	0-2	18	8" topsoil, mf-f sands, brown		0.0 DISTURBED SOIL FILL
	2	2-4	13	10" mf sand with refuse fill material 13" refuse fill, coal, ash, glass		0.0 REFUSE FILL F2002SS1 collected at 2-4'
	3	4-6	20	20" refuse fill with mf sand, coal, white ash, glass, and metal.		0.0
	4	6-8	11	11" refuse fill with mf sand		0.0 F2002SS2 collected at 6-8'
	5	8-10	2	2" refuse fill with mf sand (fall-back)		0.0 Water at 8.5'
	6	10-12	14	5" refuse fill material (possible fall-back)		0.0
				9" wet silty fine sand		FINES
	7	12-14	24	4" refuse fill material (fall-back) 4"mf-f sand with silt, wet		0.0 F2002SS3 collected at 12.3-14' SAND
	8	20-22	24	19" mf sand with silt (wash/fall-back) 5" med sand with gravel and trace silt		0.0 TILL
				EOB 25'		
				Well F2002S completed 11-04-04 to a depth of 25'bgs constructed of 2" PVC with 10 slot screen from 25'bgs to 15'bgs, #1 Sand pack from 25'bgs to 13'bgs, bentonite seal from 13'bgs to 11'bgs bentonite high solids grout from 11'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE

WELL / BORING LOG

STATION ID: H2001S		SITE NAME: Newhall Residential Area		PROJ. # 0284-319			
ADDRESS: 308 Morse St.		LOGGED BY: Andrew Danzig		DATE: 06/07/2004			
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75			
				DRILL TYPE: 4" ID			
				Hollow Stem Augers			
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	1	0-2	16	8" brown sandy loam, topsoil, cobbles		0	SAND
	2	2-4	24	8" red-brown sandy loam 24" red-brown sandy loam		0	
	3	4-6	19	19" red-brown medium sands			
		8		NO SAMPLE COLLECTED IN THIS INTERVAL			
	4	10-12	18	18" med-crs red-brown sand with some gravel			
	5	15-17	16	16" med-crs red-brown sand with some gravel			
	6	20-22	16	16" red-brown medium sands with gravel, 2" cobbles			
	7	25-27	19	6" red medium sands, some gravel		Water Level at 26'3"	
	8	30-32	24	24" red-brown med-fine sands, saturated			
	9	35-37	24	24" red-brown fine sands with trace silt, saturated			
				EOB 37'			
				Well H2001S completed 06-07-04 to a depth of 37'bgs constructed of 2" PVC with 10 slot screen from 37'bgs to 27'bgs, #1 Sand pack from 37'bgs to 25'bgs, bentonite seal from 25'bgs to 23'bgs bentonite high solids grout from 23'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.			

MALCOLM PIRNIE				WELL / BORING LOG			
STATION ID: H2002S/H2002D		SITE NAME: Newhall Residential Area			PROJ. # 0284-319		
ADDRESS: 38 Edwards St.		LOGGED BY: Andrew Danzig, Tom Doty			DATE: 1/19/05		
DRILL CO. NEBC of CT		DRILLER: Trent Roe		DRILLING RIG: D-53		DRILL TYPE: 4" ID	
						Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	1	0-2	12	0.2-1.0 Brick fragments, trace coal, top soil/gravel mix			
	2	2-4	16.8	2.0-2.3 Coal, Ash 2.3-3.0 Red-brown fines, some black coal, ash, woodshavings 3.0-3.4 Black coal, ash			H2002S S1 at 2.0-3.4 H2002D S1 at 2.0-3.4
	3	4-6	9.6	4.0-4.8 Red-brown fines, some black coal, ash, woodshavings			
	4	6-8	21.6	6.0-6.4 Brown med-fine sand, trace gravel, black coal and ash 6.4-7.0 Dark brown wood shavings 7.0-8.0 Reddish wood shavings, some coal 8.0-8.4 Reddish brown wood shavings, some gray ash 8.4-8.8 Trace wood shavings and grey ash, trace coal			H2002S S2 at 6.4-8.8 H2002D S2 at 6.0-7.2
	5	8-10	21.6	8.0-8.3 Black wood shavings, trace gravel, coal fragments 8.3-8.6 Brown med-sand/gravel, coal fragments, some woodshavings 8.6-8.7 Coal, ash 8.7-9.8 Tan/brown wood shavings, trace ash, some coal fragments			WASTE FILL
	6	10-12	16.8	10.0-10.4 Reddish brown wood shavings 10.4-10.8 Brown fines silty sand, brick fragments, some coal, some ash 10.8-11.0 Red brown fine sand, brick fragments, ash, coal 11.0-11.4 Coal, ash (white), trace brick fragments			
	7	12-14	24	12.0-13.2 White grey ash, coal 13.2-13.5 Red brown med-fine sand, coal, trace ash 13.5-14.0 White grey ash, coal			H2002S S3 at 12.5-14.0 H2002D S3 at 12.0-13.0
	8	14-16	15.6	14.0-14.8 White grey ash, some coal, trace fine sand 14.8-15.0 Red brown med-fine sand, coal, trace ash 15.0-15.3 Brown sand, coal, ash			
	9	16-18	22.8	16.0-16.4 Brown fine sand, coal, ash 16.4-17.3 Reddish brown fine silty sand, brick fragments, large coal fragments, trace ash, glass 17.3-17.9 Brown medium fine sand			H2002S S4 at 16.0-17.3 H2002D S4 at 16.0-17.0 DISTURBED SOIL FILL
	10	18-20	24	18.0-19.1 Dark brown fine sand, trace coal, trace ash 19.1-20.0 Brown fine sand, some silt			H2002S S5 at 19.5-21.0 H2002D S5 at 19.0-21.5
	11	20-22	12	20.0-21.0 Brown fine sand, some silt			Water Level: 22.9
	12	25-27		Red brown fine medium sand, saturated			
	13	30-32	21.6	30.0-31.8 Red brown medium fine sand EOB (H2002S) 33'bgs			SAND

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: H2002S/H2002D		SITE NAME: Newhall Residential Area		PROJ. # 0284-319		
ADDRESS: 48 Edwards St.		LOGGED BY: Andrew Danzig, Tom Doty		DATE: 1/19/05		
DRILL CO. NEBC of CT	DRILLER: Trent Roe	DRILLING RIG: D-53		DRILL TYPE: 4" ID		
				Hollow Stem Augers		
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS
				DESCRIPTION		ODOR, FLUID LOSS, ...
	13	40-42	12	40.0-41.0 Red brown medium fine sand, trace gravel		SAND
	14	50-52	9.6	50.0-50.8 Red brown medium fine sand, trace gravel		
	15	60-62	0.1	60.0-60.1 Red brown very coarse sand, some gravel		
				EOB (H2002D) 65'bgs		Little recovery, mostly wash material
				<p>Well H2002D completed 01-25-05 to a depth of 65'bgs constructed of 2" PVC with 10 slot screen from 65'bgs to 55'bgs, #1 Sand pack from 65'bgs to 53'bgs, bentonite seal from 53'bgs to 51'bgs bentonite high solids grout from 51'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.</p> <p>Well H2002S completed 01-20-05 to a depth of 33'bgs constructed of 2" PVC with 10 slot screen from 33'bgs to 23'bgs, #1 Sand pack from 33'bgs to 21'bgs, bentonite seal from 21'bgs to 19'bgs bentonite high solids grout from 19'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.</p>		

MALCOLM PIRNIE

WELL / BORING LOG

STATION ID: H2003D/H2003S		SITE NAME: Newhall Residential Area		PROJ. # 0284-319			
ADDRESS: 303 Goodrich St.		LOGGED BY: Garrett Ferguson		DATE: 06/015/2004			
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75			
				DRILL TYPE: 4" ID			
				Hollow Stem Augers			
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	1	0-2	20	16" brown topsoil, root structure, crushed asphalt and rock		0.0	
	2	2-4	19	4" medium to fine red brown sand, loose dry		0.0	SAND
	3	4-6	17	14" med-crs red brown sand with gravel		0.0	
		6-8	20	5" mf-f red brown sands, well graded, no gravel		0.0	
				14" mf-f red brown sands with gravel		0.0	
				5" med to fine red brown sands, no gravel		0.0	
	4	8-10	16	20" mf-f red brown sands with stone and gravel		0.0	
				16" mf-f red brown sands with stone and gravel		0.0	SAND
	5	15-17	20	20" med-fine to crs red brown sands with trace gravel, dry		0.0	
	6	20-22	18	18" med-fine to crs red brown sands with trace gravel, dry less gravel than 15-17 interval		0.0	
	7	25-27	18	18" med-crs red brown sands, moist to wet at 26'		NA	Water Level at 26'
	8	30-32	14	14" med-crs red brown sands, wet		NA	SAND
	9	35-37	10	10" med-crs red brown sands, trace gravel, wet		NA	
	10	40-42	15	15" med to crs red brown sands, wet		NA	
	11	45-47	16	16" mf-vf red brown sands with silt, liquifies easily		NA	

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: H2003D/H2003S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS:303 Goodrich St.		LOGGED BY: Garrett Ferguson			DATE: 06/15/2004	
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
					Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION		
	12	50-52	20	2" mf-vf red brown sand with silt 18" med to fine red brown sand, trace silt		NA
	13	55-57	24	24" med to fine red brown sand with trace silt		NA
	14	60-62	16	16" med to fine red brown sand with trace silt		NA
	15	65-67	24	24" med to fine red brown sand with trace silt		NA
				EOB 68'		
				Well H2003D completed 06-15-04 to a depth of 68'bgs constructed of 2" PVC with 10 slot screen from 68'bgs to 58'bgs, #1 Sand pack from 68'bgs to 56'bgs, bentonite seal from 56'bgs to 54'bgs bentonite high solids grout from 54'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		
				Well H2003S completed 06-17-04 to a depth of 36'bgs constructed of 2" PVC with 10 slot screen from 36'bgs to 26'bgs, #1 Sand pack from 36'bgs to 24'bgs, bentonite seal from 24'bgs to 22'bgs bentonite high solids grout from 22'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE				WELL / BORING LOG			
STATION ID: J2001S			SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 39 Edwards St.			LOGGED BY: C. Sullivan			DATE: 10/25/2004	
DRILL CO.: SITE LLC.		DRILLER: John DeAngelis, Jr.	DRILLING RIG: CME 75		DRILL TYPE: 4.25" ID		
						Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	1	0-2	22	0-2' Disturbed Soil Fill - Silty sand with black ash, white ash, and coal		0.0	DISTURBED SOIL FILL J2001SS1 at 2-4'
	2	2-4	16	2-2.3' Disturbed Soil Fill (as above)		0.0	
	3	4-6	14	2.3-4' Waste Fill - Coal, white ash, slag 4-6' Waste Fill - White ash, coal, slag, fairly dense.		0.0	WASTE FILL J2001SS2 at 6-8' J2001SS3 at 12-14'
	4	6-8	13	6-8' Waste Fill - White ash, coal, slag, orange staining, glass fragments.		0.0	
	5	8-10	18	8-10' Waste Fill - White ash, black ash, coal, paper, brick.			
	6	10-12	12	10-12' Waste Fill - White ash, coal, slag, orange staining.			
	7	12-14	10	12-14' Waste Fill - White ash, black ash, slag, glass		0.0	
	8	14-16	10	14-16' Waste Fill - White ash, coal, glass, metal, trace silty sand.			
	9	16-18	24	16-16.6' Waste Fill (as above)			
	10	18-20	24	16.6-18' Disturbed Soil Fill - Silty red brown Sand, trace coal, ash, metal.		0.0	DISTURBED SOIL FILL J2001SS4 at 18-20'
				18-20' Red brown silty M Sand, moist, med dense.			Water at 24.9'BGS SAND
	11	25-27	19	25-27' Red brown F-M Sand, little silt, trace F-M subround gravel, wet, med dense.		0.0	
	12	30-32	24	30-32' Red brown M-C Sand, some F-M subround gravel, wet, med dense.		0.0	
				End J2001S at 35'BGS Well J2001S completed 10-25-04 to a depth of 35'bgs constructed of 2" PVC with 10 slot screen from 35'bgs to 25'bgs, #1 Sand pack from 35'bgs to 23'bgs, bentonite seal from 23'bgs to 21'bgs bentonite high solids grout from 21'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.			

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: K2001S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 79 Marlboro St.		LOGGED BY: Garrett Ferguson			DATE: 06/11/2004	
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
					Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION		
	1	0-2	20	12" dark brown topsoil and root structure	0.0	
	2	2-4	22	8" Medium-fine to fine red brown sand	0.0	SAND
	3	4-6	19	22" med-crs red brown sands with 1-2" pebbles	0.0	
	4	8-10	20	6" med-crs red brown sand with 1-2" pebbles	0.0	
				13" med to crs red brown sands, very loose	0.0	
				20" med-crs red brown sands with 1-2" gravel	0.0	
	5	15-17	18	18" med-crs red brown sand trace gravel	0.0	SAND
	6	20-22	16	18" med-crs red brown sand trace gravel thin lense of fine sands at approx. 21'	0.0	
	7	25-27	20	20" med-med fine red brown sands, well sorted	0.0	Water Level at 26
	8	30-32	20	20" vf-f sand red brown, wet, liquifies easily	0.0	SAND
				EOB 37"		
				Well K2001S completed 06-11-04 to a depth of 37'bgs constructed of 2" PVC with 10 slot screen from 37'bgs to 27'bgs, #1 Sand pack from 37'bgs to 25'bgs, bentonite seal from 25'bgs to 23'bgs bentonite high solids grout from 23'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE

WELL / BORING LOG

STATION ID: K2002S/K2002D		SITE NAME: Newhall Residential Area			PROJ. # 0284-319			
ADDRESS: 274 Morse St.		LOGGED BY: Garrett Ferguson			DATE: 06/08/2004			
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4" ID		
						Hollow Stem Augers		
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS	
				DESCRIPTION			ODOR, FLUID LOSS, ...	
	1	0-2	19	5" top soil with some asphalt		0.5	DISTURBED SOIL FILL	
	2	2-4	19	14" medium to fine red brown sand with some gravel 19" fine to med red sands with some gravel		0.0	SAND	
	3	4-6	19	19" med red brown sands with some gravel		0.1		
	4	10-12	18	18" med red brown sands with some gravel		0.0		
	5	15-17	12	3" med-fine red brown sand 4" med-crs red white sand 5" med-fine sand with some gravel, basalt and quartz		0.0		
	6	20-22	14	3" mf-crs red brown sands 11" mf-crs red brown sands with basalt & quartz		0.0		
	7	25-27	17	17" med-fine to fine dk red brown sands, sat., trace silt		NA		Water Level at 25'2"
	8	30-32	17	17" med-fine to fine dk red brown sands, sat., trace silt		NA		
	8	35-37	24	24" med-fine to fine dark red brown sand, sat., trace silt		NA		
	9	40-42	16	16" med-fine to fine dark red brown sand with silt		NA		
	10	45-47	18	18" mf-vf dark brown sands with some silt, liquifies easily		NA		

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: K2003D/K2003S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 274 Morse St.		LOGGED BY: Garrett Ferguson			DATE: 06/09/2004	
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
					Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY DESCRIPTION	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
	11	50-52	24	20" med-fine dark red brown sands, trace silt 4" vf red brown sand and silt, some layering	NA	SAND
	12	55-57	8	8" vf red brown sand and silt	NA	
	13	60-62	10	10" med-fine to fine dark brown sands with some silt	NA	
	14	65-67	20	20" med-fine to fine dark brown sands with some silt grades to finer sand and silt at 66'	NA	
				EOB 67' Well K2002D completed 06-09-04 to a depth of 65'bgs constructed of 2" PVC with 10 slot screen from 65'bgs to 55'bgs, #1 Sand pack from 65'bgs to 52'bgs, bentonite seal from 52'bgs to 50'bgs bentonite high solids grout from 50'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface. Well K2002S completed 06-09-04 to a depth of 35'bgs constructed of 2" PVC with 10 slot screen from 35'bgs to 25'bgs, #1 Sand pack from 35'bgs to 23'bgs, bentonite seal from 23'bgs to 21'bgs bentonite high solids grout from 21'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE

WELL / BORING LOG

STATION ID: L2001S & D		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 481 Shelton Ave.		LOGGED BY: C. Sullivan			DATE: 10/21-10/22/04	
DRILL CO.: SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4.25" ID
Hollow Stem Augers						
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS
				DESCRIPTION		ODOR, FLUID LOSS, ...
	1	0-2	18	Black ash and slag	0.0	
	2	2-4	12	Black ash and orange stained slag	0.0	L2001DS1 at 2-4' L2001SS1 at 2-4'
	3	4-6	10	Black ash and slag	NA	WASTE FILL
	4	6-8	18	Black ash, slag and wood	0.0	L2001DS2 at 6-8' L2001SS2 at 6-8'
	5	8-10	24	Black ash, white ash and wood	0.0	
	6	10-12	12	Black ash, white ash, slag and wood Black ash, white ash and slag	0.0	L2001SS3 at 10-12'
	7	12-14	19	Orange brown F-M silty Sand, trace subangular F gravel, moist, dense.	0.0	L2001DS3 at 12-14' DISTURBED SOIL FILL
	8	14-16	13	Red brown M Sand, little silt, little C sand, trace F-M subangular gravel, moist, med dense, coarsens downward.	0.0	L2001DS4 at 14-16' L2001SS4 at 14-16'
	9	20-22	15	Red brown M-C Sand, little F-M subround gravel, moist, med dense.	NA	SAND
	10	25-27	10	Red brown M-C Sand, some subround F gravel, trace subangular C gravel, moist-wet, med dense.	NA	Water at 26.5'BGS
	11	30-32	20	Red brown M-C Sand, little F-M subround gravel, moist-wet, med dense.	NA	
	12	35-37	24	Same as above Grades to red brown M Sand and continues fining downward, med dense, wet.	NA	
	13	40-42	24	End L2001S at 38'BGS Red brown M Sand, trace C sand, trace subangular F gravel, wet, med dense.	NA	SAND
	14	45-47	24	Red brown F-M Sand, trace angular C sand, wet, med dense.	NA	

MALCOLM PIRNIE

WELL / BORING LOG

STATION ID: L2001S & D			SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 481 Shelton Ave.			LOGGED BY: C. Sullivan			DATE: 10/21-10/22/04	
DRILL CO.: SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4.25" ID	
							Hollow Stem Augers
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	15	50-52	18	Red brown F-M Sand, trace subangular-angular C sand, wet, med dense.			SAND
	16	55-57	12	Red brown F Sand, little M sand, wet, med dense			
	17	60-62	17	Red brown F-C Sand, coarsens downward, wet, med dense.			
	18	65-67	23	Red brown F-M Sand, trace C sand, wet, med dense.			
				End L2001D at 70'bgs			
				<p>Well L2001D completed 10-21-04 to a depth of 70'bgs constructed of 2" PVC with 10 slot screen from 70'bgs to 60'bgs, #1 Sand pack from 70'bgs to 58'bgs, bentonite seal from 58'bgs to 56'bgs bentonite high solids grout from 56'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.</p> <p>Well L2001S completed 10-22-04 to a depth of 38'bgs constructed of 2" PVC with 10 slot screen from 38'bgs to 28'bgs, #1 Sand pack from 38'bgs to 26'bgs, bentonite seal from 26'bgs to 24'bgs bentonite high solids grout from 24'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.</p>			

MALCOLM PIRNIE			WELL / BORING LOG				
STATION ID: L2002S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319		
ADDRESS: 453 Shelton Ave.		LOGGED BY: Garrett Ferguson			DATE: 06/16/2004		
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4"	
						Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	1	0-2	20	6" dark brown topsoil and root structure		0.0	SAND
	2	2-4	20	14" Med-fine to crs brown sands, dry, loose		0.0	
	3	4-6	14	20" med to crs red brown sands, some gravel, dry, loose		0.0	
	4	6-8	20	14" med to crs red brown sands, some gravel, grades to med to fine at 6'		0.0	
	5	8-10	16	18" med to fine red brown sands with some gravel		0.0	
	6	15-17	16	16" med to fine red brown sands with some gravel		0.0	SAND
	7	20-22	17	14" med to crs red brown sands, some gravel 2" med-fine to fine red brown sands		0.0	
	8	25-27	16	17" med to crs red brown sands, some gravel		0.0	Water Level at 25
	9	30-32	17	16" med-crs red brown sands, wet, well graded, t. gravel		NA	
				14" med-crs red brown sands, wet, well graded, t. gravel 3" med-fine to fine red brown sands with silt, wet		NA	SAND
				EOB 35'			
				Well L2002S completed 06-16-04 to a depth of 35'bgs constructed of 2" PVC with 10 slot screen from 35'bgs to 25'bgs, #1 Sand pack from 35'bgs to 23'bgs, bentonite seal from 23'bgs to 21'bgs bentonite high solids grout from 21'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.			

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: N2001S		SITE NAME: Newhall Residential Area		PROJ. # 0284-319		
ADDRESS: 211-213 Goodrich St.		LOGGED BY: Garrett Ferguson		DATE: 06/14/2004		
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr.	DRILLING RIG: CME 75		DRILL TYPE: 4" ID		
				Hollow Stem Augers		
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS
				DESCRIPTION		ODOR, FLUID LOSS, ...
	1	0-2	16	8" topsoil, and root structure, brown	0.0	
	2	2-4	20	8" med-fine brown sands, trace silts	0.0	SAND
	3	4-6	18	12" med-fine to crs sands with some pebbles, brown	0.0	
	4	6-8	16	12" med-fine to crs sands with some pebbles, brown	0.0	
	5	8-10	15	2" med-fine to crs sands with some pebbles, brown	0.0	
				14" med-crs red brown sands, trace gravel, pea sized		
				15" med to crs red brown sands, trace gravel	0.0	
	6	15-17	17	17" med-fine to crs red brown sands with some gravel peasize to 1"	0.0	SAND
	7	20-22	18	15" med-fine to crs red brown sands with some gravel peasize to 1"	0.0	
				3" med-crs red brown sands with 1-2" gravel		
	8	25-27	16	10" med-fine to very-fine red brown sand, moist	0.0	Water Level at 27'
				6" fine to very fine red brown sand, wet		
	9	30-32	24	24" med-fine to fine red brown sands, wet	NA	SAND
	10	35-37	24	24" med-fine to very-fine red brown sand and silt, wet	NA	
				EOB 37'		
				Well N2001S completed 06-14-04 to a depth of 37'bgs constructed of 2" PVC with 10 slot screen from 37'bgs to 27'bgs, #1 Sand pack from 37'bgs to 25'bgs, bentonite seal from 25'bgs to 23'bgs, bentonite high solids grout from 23'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: P2001S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 984 Winchester Ave.		LOGGED BY: Garrett Ferguson			DATE: 06/11/2004	
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
					Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION		
	1	0-2	16	8" topsoil and root structure	0.0	SAND
	2	2-4	20	8" med-fine to fine red brown sand 4" med-fine to fine red brown sands	0.0	
	3	4-6	16	16" med to crs red brown sands with 1/2"-1" pebbles 16" med to crs red brown sands trace pebbles	0.0	
	4	10-12	20	15" med-fine to fine red brown sands, trace silt 5" med to crs red brown sands, v.loose	0.0	SAND Water Level at 18'
	5	15-17	20	20" med-fine to fine red brown sands, loose dry	0.0	
	6	20-22	20	16" med-fine to fine red brown sands, wet	0.0	
				4" med to fine red brown sands with silt and trace clay some small pebbles, glacial till		TILL
	7	25-27	24	24" med to fine red brown sands with silt and trace clay some small pebbles, glacial till	0.0	
				EOB 28' Well P2001S completed 06-11-04 to a depth of 28'bgs constructed of 2" PVC with 10 slot screen from 28'bgs to 18'bgs, #1 Sand pack from 28'bgs to 16'bgs, bentonite seal from 16'bgs to 14'bgs, bentonite high solids grout from 14'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: Q2001S			SITE NAME: Newhall Residential Area			PROJ. # 0284-319
ADDRESS: 163 Goodrich St.			LOGGED BY: Garrett Ferguson			DATE: 06/17/2004
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr		DRILLING RIG: CME 75		DRILL TYPE: 4" ID
						Hollow Stem Augers
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY DESCRIPTION	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
	1	0-2	16	15" topsoil and root structure	0.0	
	2	2-4	16	1" med-fine to fine dark brown sand, trace silt	0.0	SAND
	3	4-6	15	8" med-fine to fine dark brown sand, trace silt 8" med to fine red brown sands, trace gravel	0.0	
	4	6-8	18"	15" med to fine red brown sands, trace gravel	0.0	
	5	8-10	18	3" med-fine to fine red brown sands, trace gravel 15" med to fine red brown sands, less gravel	0.0	
	6	15-17	16	18" med-fine to fine red brown sands	0.0	SAND
	7	20-22	24	16" med to coarse red brown sands, wet	0.0	Water Level at 15'
				12" med to coarse red brown sands, wet 12" fine to very fine sand with silt	0.0	
				EOB 25'		
				Well Q2001S completed 06-17-04 to a depth of 25'bgs constructed of 2" PVC with 10 slot screen from 25'bgs to 15'bgs, #1 Sand pack from 25'bgs to 13'bgs, bentonite seal from 13'bgs to 11'bgs, bentonite high solids grout from 11'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: Q2002S/Q2002D		SITE NAME: Newhall Residential Area		PROJ. # 0284-319		
ADDRESS: 34 Marlboro St.		LOGGED BY: Garett Ferguson		DATE: 06/21/2004		
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr.	DRILLING RIG: CME 75		DRILL TYPE: 4" ID		
				HAS & mud rotary		
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY DESCRIPTION	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
	1	0-2	16	12" top soil with some asphalt 4" fill, ash and slag	0.5	Samples from Q2002S: Q2002S1 at 3'-4' interval
	2	2-4	14	10" dk brown med-fine to fine trace silt and gravel 4" fill, ash and slag	0.0	Q2002S2 at 8'-10' interval Q2002S3 at 11'-12' interval
	3	4-6	18	10" white, gray ash and crushed ceramic fill	0.0	WASTE FILL
		6-8	20	8" red brown to black ash fill material 20" red brown to black ash fill material	0.0	
		8-10	16	9" white-gray ash fill with crushed ceramics	0.0	Samples from Q2002D: Q2002S4 at 3'-5' interval
	4	10-12	15	8" red brown to black ash fill material 2" red brown to black ash fill material	0.0	Q2002S5 at 7'-8' interval Q2002S6 at 11'-12' interval
				13" dk brown med-fine to fine sand,		SAND
	5	20-22	15	15" med-fine to crs red brown sand, wet	0.0	Water Level at 19'BGS
	6	25-27	14	14" med-fine to very-fine red brown sands with silt trace crs sand, wet	NA	SAND
	7	30-32	16	6" red brown crs sands, wet 10" red brown very-fine sands and silt, liquifies easily	NA	
	8	35-37	15"	10" red brown very-fine sands and silt, liquifies easily 5" med-fine to fine red brown sand w. trace crushed rock	NA	
	9	40-42	20	16" med sand red brown trace silt 4" med-fine to very-fine red brown sand & silt, tr. pebbles	NA	
						BEDROCK

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: Q2002S/Q2002D		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 34 Marlboro St.		LOGGED BY: Garrett Ferguson			DATE: 06/21/2004	
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr		DRILLING RIG: CME 75		DRILL TYPE: 4" ID
						HAS & mud rotary
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY DESCRIPTION	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				<p>The bedrock was drilled using rotary methods. Drill cuttings seen from fluid return are the regional, underlying arkosic sandstone bedrock.</p>		<p>Augered into bedrock to 45'</p> <p>BEDROCK</p>
				<p>EOB 63.5'</p> <p>Well Q2002D completed 06-22-04 to a depth of 63'bgs constructed of 2" PVC with 10 slot screen from 63'bgs to 53'bgs, #1 Sand pack from 63'bgs to 51'bgs, bentonite seal from 51'bgs to 44'bgs, bentonite high solids grout from 44'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.</p> <p>Well Q2002S completed 06-21-04 to a depth of 30'bgs constructed of 2" PVC with 10 slot screen from 30'bgs to 20'bgs, #1 Sand pack from 30'bgs to 18'bgs, bentonite seal from 18'bgs to 16'bgs, bentonite high solids grout from 16'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.</p>		

MALCOLM PIRNIE							WELL / BORING LOG	
STATION ID: R2001S			SITE NAME: Newhall Residential Area			PROJ. # 0284-319		
ADDRESS: 26 North Sheffield St.			LOGGED BY: Garrett Ferguson			DATE: 06/23/2004		
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr		DRILLING RIG: CME 75		DRILL TYPE: 4" ID		
						Hollow Stem Augers		
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...	
				DESCRIPTION				
	1	0-2	20	8" dark brown topsoil and root structure		0.0	SAND	
	2	2-4	20	12" Medium-fine to fine brown sand, loose		0.0		
				3" med to fine brown sand loose		0.0		
	3	4-6	20	17" med-fine to fine with trace crs red brown sands		0.0		
				20" med-fine to fine with trace crs red brown sands		0.0		
	4	6-8	18	8" med-fine to fine with trace crs red brown sands		0.0	Water Level at 7' BGS	
				10" medium red brown sands, wet at 7'		0.0		
	5	8-10	20	20" medium red brown sands, saturated		0.0	SAND	
	6	15-17	18	16" medium red brown sands, saturated		NA		
				2" med-fine to fine red brown sands and silt				
				EOB 17'				
				Well R2001S completed 06-23-04 to a depth of 17'bgs constructed of 2" PVC with 10 slot screen from 17'bgs to 7'bgs, #1 Sand pack from 17'bgs to 5'bgs, bentonite seal from 5'bgs to 3'bgs, bentonite high solids grout from 3'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.				

MALCOLM PIRNIE				WELL / BORING LOG		
STATION ID: S2001S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 44 Prospect La.		LOGGED BY: Garrett Ferguson			DATE: 06/23/2004	
DRILL CO. SITE LLC.	DRILLER: John DeAngelis,		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
					Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION		
	1	0-2	18	8" topsoil and root structures, brown	0.0	
	2	2-4	20	20" med to med-fine red brown sand, trace silt and gravel	0.0	SAND
	3	4-6	20	20" med to med-fine red brown sand, trace silt and gravel Moist	0.0	
	4	6-8	24	14" med to med-fine red brown sand, trace silt and gravel	0.0	Water at 7' BGS
	5	8-10	16	10" red brown mf-f sand, with silt and pebbles (till material) 11" red brown mf-f sand, with silt and pebbles (till material) 5" red brown vf-f sand with silt, highly weathered bedrock	0.0	TILL Augered down to 13.5' which is about 1.5' into competent rock.
						BEDROCK (New Haven Arkose)
				EOB 13.5' Well S2001S completed 06-23-04 to a depth of 13'bgs constructed of 2" PVC with 10 slot screen from 13'bgs to 3'bgs, #1 Sand pack from 13'bgs to 2'bgs, bentonite seal from 2'bgs to 1'bgs, bentonite high solids grout from 1'bgs to 0'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE			WELL / BORING LOG			
STATION ID: T2001S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 670 Newhall St.		LOGGED BY: Garrett Ferguson			DATE: 06/25/2004	
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
						Hollow Stem Augers
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY DESCRIPTION	PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
	1	0-2	20	8" dark brown compacted med-fine sand	0.0	SAND
	2	2-4	18	12" brown med-fine to fine sands, trace silt	0.0	
	3	4-6	16	18" med to fine light brown sand, loose	0.0	
	4	6-8	16	16" med to fine light brown sand, loose	0.0	
	5	8-10	18	6" med to fine light brown sand, loose	0.0	
		10-12	22	12" med-crs red brown sand with pea gravel	0.0	
			NA	22" med-crs red brown sand with pea gravel	0.0	
			NA	NO SAMPLES WERE COLLECTED FROM THIS INTERVAL	NA	
	6	15-17	20	4" Fallback	0.0	
				16" med-crs red brown sand with pea gravel	0.0	
	7	20-22	16	4" med-fine red brown sands, loose, dry	0.0	SAND
				12" med-crs red brown sands with some 1" gravel	0.0	
	8	25-27	16	16" medium to fine brown to lt brown sand, loose, dry	0.0	Water Level at 29'6"
	9	30-32	18	18" med-crs red brown sands, saturated	NA	
	10	35-37	24	20" med-crs red brown sands, saturated	NA	SAND
				4" very-fine sand and some silt, red brown, liquifies easily	NA	
				EOB 40'		
				Well T2001S completed 06-25-04 to a depth of 40'bgs constructed of 2" PVC with 10 slot screen from 40'bgs to 30'bgs, #1 Sand pack from 40'bgs to 28'bgs, bentonite seal from 28'bgs to 26'bgs bentonite high solids grout from 26'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		

MALCOLM PIRNIE				WELL / BORING LOG			
STATION ID: T2002S			SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 342 Augur St.			LOGGED BY: Emily Moshier			DATE: 7/1/2004	
DRILL CO. SITE LLC.		DRILLER: John DeAngelis, Jr		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
						Hollow Stem Augers	
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY		PID (PPM)	REMARKS ODOR, FLUID LOSS, ...
				DESCRIPTION			
	1	0-2	8	2" topsoil, 6" brown f SAND, tr m sand, tr gravel, tr asphalt			DISTURBED SOIL FILL
	2	2-4	12	8" brown SAND & GRAVEL, tr silt			T2002SS1 at 2-3 interval
	3	4-6	16	4" orange-brown SILT & f SAND 3" SAND & GRAVEL (probably fall-in)			T2002SS2 at 4-6 interval
	4	6-8	18	13" orange-brown SILT & f SAND orange-brown f SAND, tr silt			SAND
	5	8-10	24	12" orange-brown SILT & f SAND 12" brown-red-orange f to m SAND			
	6	13-15		red-brown f to c SAND & GRAVEL			
							Water level at 22'
	9	30-32		Red-brown (ltl white, tr orange) SAND & GRAVEL			SAND
				EOB 32' Well T2002S completed 07-01-04 to a depth of 32'bgs constructed of 2" PVC with 10 slot screen from 32'bgs to 22'bgs, #1 Sand pack from 32'bgs to 20'bgs, bentonite seal from 20'bgs to 18'bgs bentonite high solids grout from 18'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.			

MALCOLM PIRNIE			WELL / BORING LOG			
STATION ID: T2003S		SITE NAME: Newhall Residential Area			PROJ. # 0284-319	
ADDRESS: 670 Newhall St.		LOGGED BY: Garrett Ferguson			DATE: 06/24/2004	
DRILL CO. SITE LLC.	DRILLER: John DeAngelis, Jr.		DRILLING RIG: CME 75		DRILL TYPE: 4" ID	
						Hollow Stem Augers
ELEV. FT.	SAMPLE NUMBER	SAMPLE DEPTH(ft)	RECOVERY (inches)	STRATIGRAPHY	PID (PPM)	REMARKS
				DESCRIPTION:		ODOR, FLUID LOSS, ...
	1	0-2	18	9" topsoil and root structures, dark brown	0.0	
	2	2-4	16	9" med-crs dark brown sand and trace fill ash 16" dark brown med to fine sand, trace ash and gravel	0.0	T2003SS1 at 2-3 interval
	3	4-6	15	15" dark brown med to fine sand, trace ash and gravel	0.0	DISTURBED SOIL FILL
	4	6-8	19	19" dark brown med to fine sand, no ash, some gravel	0.0	T2003SS2 at 6-8' interval
	5	8-10	17	17" dark red brown med to crs sand with gravel	0.0	
		10-12	16		0.0	
		12-14	15	16" crs red brown sand and gravel, some crushed terra cotta 15" red brown crs sand with gravel, wet	0.0	SAND
	6	15-17	NA	NO SAMPLES TAKEN AT THIS INTERVAL	0.0	
	7	20-22	16	16" Med-fine to fine light brown sands, loose, dry	0.0	
	8	25-27	18	18" med to fine sands with small pea gravel, saturated	NA	Water at 27.2'bgs
				Stop all work to have the city engineer check the locations of sewer lines in the area. Markouts in the area may not be complete or correct. Upon review all augers will be pulled and the boring will be grouted to approx. 12' below ground surface (approx. depth of utility pipe). Once all augers are pulled visuals of water running in pipe is confirmed. Instructed to leave the hole open to 12' BGS.		
				EOB 37'bgs Well T2003S completed 06-24-04 to a depth of 37'bgs constructed of 2" PVC with 10 slot screen from 37'bgs to 27'bgs, #1 Sand pack from 37'bgs to 25'bgs, bentonite seal from 25'bgs to 23'bgs bentonite high solids grout from 23'bgs to 1'bgs. Compression cap, concrete road box, and protective manhole at surface.		