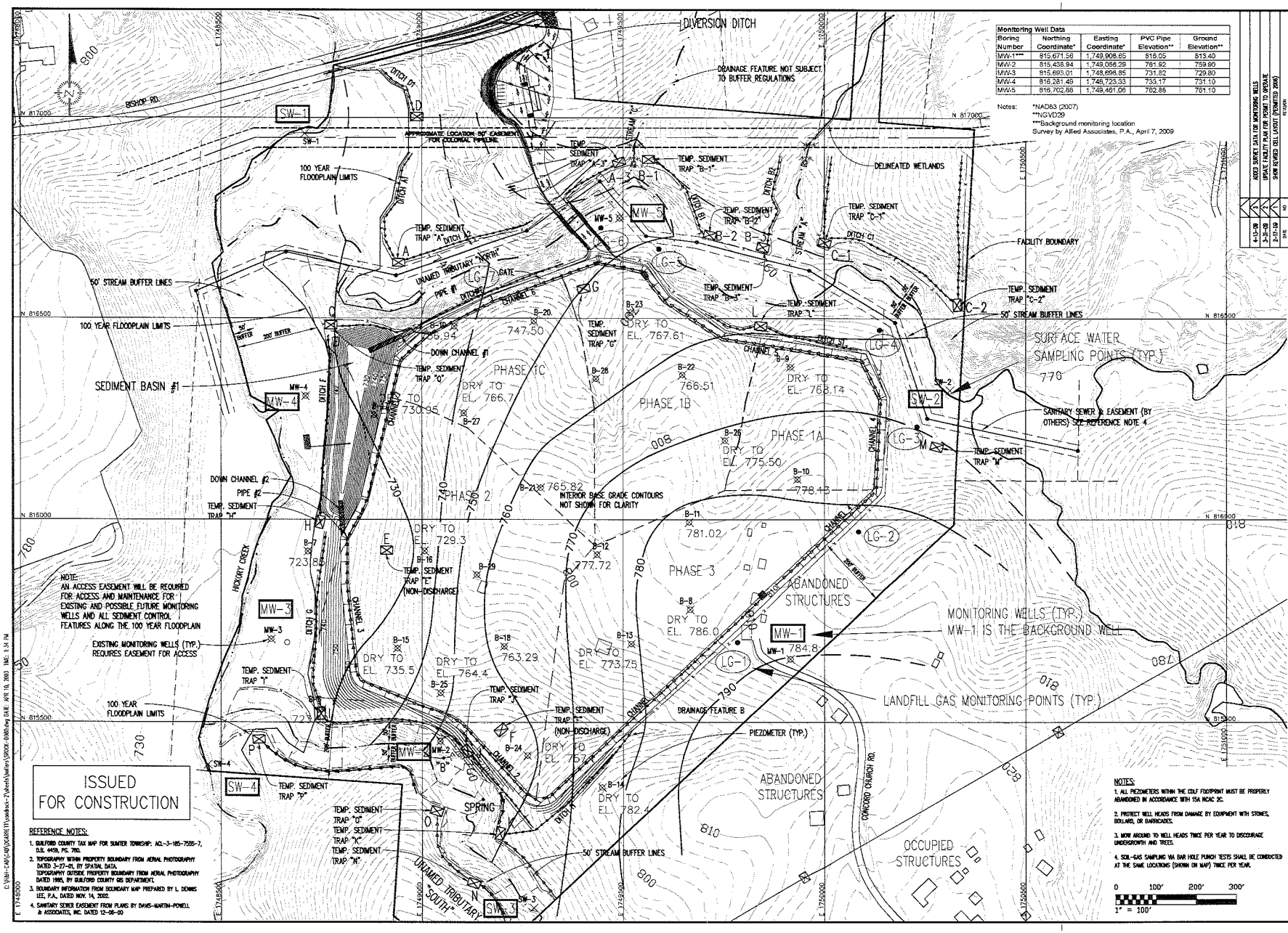

Monitoring Well Data				
Boring Number	Northing Coordinate*	Easting Coordinate*	PVC Pipe Elevation**	Ground Elevation**
MW-1***	815,671.56	1,749,908.65	816.05	813.40
MW-2	815,438.94	1,749,056.29	761.92	759.90
MW-3	815,693.01	1,748,696.85	731.82	729.80
MW-4	816,281.49	1,748,723.33	753.17	751.10
MW-5	816,702.88	1,749,461.06	762.86	761.10

Notes: *NAD83 (2007)
**NGVD29
***Background monitoring location
Survey by Allied Associates, P.A., April 7, 2009

NO.	DATE	REVISION
1	4-12-09	ADDED SURVEY DATA FOR MONITORING WELLS
2	3-31-09	UPDATE FACILITY PLAN FOR PERMIT TO OPERATE
3	2-11-09	SHOW REVISED CELL LAYOUT (PERMITTED 2008)

REFERENCE NOTES:

1. GUILFORD COUNTY TAX MAP FOR SUMTER TOWNSHIP: ACL-3-185-7535-7, D.B. 4459, PG. 780.
2. TOPOGRAPHY WITHIN PROPERTY BOUNDARY FROM AERIAL PHOTOGRAPHY DATED 3-27-01, BY SPATIAL DATA. TOPOGRAPHY OUTSIDE PROPERTY BOUNDARY FROM AERIAL PHOTOGRAPHY DATED 1995, BY GUILFORD COUNTY GIS DEPARTMENT.
3. BOUNDARY INFORMATION FROM BOUNDARY MAP PREPARED BY L. DENNIS LEE, P.A., DATED NOV. 14, 2002.
4. SANITARY SEWER EASEMENT FROM PLANS BY DAVIS-MARTIN-POWELL & ASSOCIATES, INC. DATED 12-06-00

NOTES:

1. ALL PIEZOMETERS WITHIN THE GULF FOOTPRINT MUST BE PROPERLY ABANDONED IN ACCORDANCE WITH 15A NCAC 2C.
2. PROTECT WELL HEADS FROM DAMAGE BY EQUIPMENT WITH STONES, BOLLARD, OR BARRICADES.
3. MOW AROUND TO WELL HEADS TWICE PER YEAR TO DISCOURAGE UNDERGROWTH AND TREES.
4. SOIL-GAS SAMPLING VIA BAR HOLE PUNCH TESTS SHALL BE CONDUCTED AT THE SAME LOCATIONS (SHOWN ON MAP) TWICE PER YEAR.

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Engineering and Geology
5105 Harbour Trace Drive, Raleigh, North Carolina 27604
E-mail: dandassoc@garrettpa.com 919-231-1818 (Office and Fax) 919-418-1375 (mobile)

SEAL

PROJECT TITLE: A-1 SANDROCK C.D.L.F. GUILFORD COUNTY, N.C.

DRAWING TITLE: MONITORING PLAN

DESIGNED BY: G.D.G.	DRAWN BY: A.W.H.
CHECKED BY: G.D.G.	PROJECT NO.: SANDROCK-2
SCALE: 1"= 100'	DATE: JUNE 2002
FILE NAME: SROCK-D080_MP-1	
SHEET NO.: 10	DRAWING NO.: MP1

TABLE 1A
Monitoring Well and Surface Sampling Location Data

Location and Elevation Data					Lithologic Data						
Boring Number	Northing Coordinate[1]	Easting Coordinate[1]	PVC Pipe Elevation[2]	Ground Elevation[2]	Drilling Method	Total Depth, ft.	Bottom Elev.	PWR		Bedrock	
								Depth, ft.	Elev.	Depth, ft.	Elev.
MW-1[3]	815,671.56	1,749,908.65	816.05	813.40	HSA/Core	44.0	769.40	13	800.40	19	794.40
MW-2	815,438.94	1,749,056.29	761.92	759.90	HSA/Core	33.0	726.90	8	751.90	13	746.90
MW-3	815,693.01	1,748,698.85	731.82	729.80	HSA	33.0	696.80	9	720.80	33	696.80
MW-4	816,281.49	1,748,723.33	733.17	731.10	HSA	24.0	707.10	11	720.10	24	707.10
MW-5	816,702.88	1,749,461.06	762.88	761.10	HSA/Core	28.5	732.60	4	757.10	8	753.10

Notes:
1. NAD83 (2007)
2. NGVD29
3. Background monitoring location

PWR = Partially Weathered Rock, or 100+ bpf material

Survey by Allied Associates, P.A., April 7, 2009

Well Construction Data								Stabilized Water Level at 24 Hours		Monitored Hydrogeologic Unit
Boring Number	PVC Pipe Elevation[2]	Ground Elevation[2]	Stickup ft.	Top of Screen		Bot. of Screen				
				Depth, ft.	Elev.	Depth, ft.	Elev.	Depth, ft.	Elev.	
MW-1[3]	816.05	813.40	2.6	34.0	779.4	44.0	769.4	34.0	779.4	Bedrock
MW-2	761.92	759.90	2.0	23.0	736.9	33.0	726.9	13.6	746.3	Bedrock
MW-3	731.82	729.80	2.0	28.0	701.8	33.0	696.8	8.0	721.8	PWR
MW-4	733.17	731.10	2.1	9.0	722.1	24.0	707.1	13.0	718.1	PWR
MW-5	762.88	761.10	1.8	28.5	732.6	28.5	732.6	17.2	743.9	Bedrock

TABLE 1B
Existing Surface Sampling Locations

Monitoring Location	Description of Monitoring Location
SW-1	Background on Hickory Creek (at Colonial Pipeline crossing)
SW-2 [4]	Background on "north" unnamed tributary (at property line)
SW-3 [4]	Background on "south" unnamed tributary (at property line)
SW-4	Down gradient on Hickory Creek (below stream convergence)

4. These streams were dry during late July - Aug 2002, sample subject to flow conditions