

**LEGGETTE, BRASHEARS & GRAHAM, INC.**

**CONSULTING GROUND-WATER GEOLOGISTS**

R. G. SLAYBACK  
G. SIDNEY FOX  
FRANK H. CRUM  
MICHAEL R. BURKE  
ROBERT LAMONICA

EDWARD T. SIMMONS  
CONSULTANT

1211 N. WESTSHORE BLVD.  
TAMPA, FL 33607  
813-879-8177

CABLE ADDRESS - AGUAFLA

HARRY F. OLESON  
WILLIAM K. BECKMAN  
DAN C. BUZEA  
DOUGLAS E. SIMMONS  
JOHN NASO, JR.  
W. PETER BALLEAU

May 16, 1988

Mr. Lloyd Fox,  
Environmental Specialist  
Florida Department of  
Environmental Regulation  
2269 Bay Street  
Fort Myers, Florida 33901-2896

Re: April, 1988 Monitoring  
Naples Airport Authority  
Landfill (closed)  
GMSID No. 5211C00851  
Ground-Water Monitoring Plan

**RECEIVED**  
MAY 19 1988

D.E.R. FORT MYERS

Dear Mr. Fox:

The following letter describes activities performed by Leggette, Brashears & Graham, Inc. (LBG) during the March and April monitoring of the closed landfill at the above referenced project site. Activities performed included construction of Monitoring Well MW-1D, modifications to Well MW-5S, sampling of monitoring wells and leachate as specified in the permit and the measurement of water-level elevations.

Monitoring Well Construction

Monitoring Well Number MW-1D was constructed on March 31, 1988. It is located approximately 6 feet east of MW-1S. All drilling equipment and well construction materials were steam cleaned prior to utilization. The boring for the well was advanced by 4-inch diameter (ID) hollow-stem auger to depth of about 35 feet. Auger cuttings were collected continuously to provide a description of the materials encountered during drilling. These lithologic descriptions are given in the attached well log. The enclosed well-construction diagram shows the well specifications for MW-1D. Elevation of the top of the well casing was determined relative to MW-1S through the use of a level and is included in the well log.

May 16, 1988

Well MW-5S was modified so that it is enclosed inside of a 6-inch diameter manhole and finished below land surface. It should no longer be a hazard to air traffic. The new elevation of the top of the casing is 7.42 feet NGVD. Locks were placed on all of the wells to prevent tampering. A spare set of keys was left with the Airport Authority.

### Well Sampling

The monitoring wells and landfill leachate were sampled on March 31, 1988. The samples were sent to Savannah Laboratories, Inc. for analyses. The laboratory reports for all samples are attached. This sampling event includes those activities originally scheduled for the January sampling as was discussed with you in March, 1988. All sampling was performed in accordance with the LBG approved Generic Quality Assurance Plan. Water-levels were measured in all wells prior to sampling and are shown on the attached Parameter Monitoring Report.

Table 1 is a summary of the chemical parameters detected in excess of their respective maximum contaminant level (MCL) during the June 1987 and March 1988 sampling. EDB was not detected in Well MW-4S during this sampling as it was in June, 1987. However, anomalously high levels of several parameters were detected. These include some of the metals, gross alpha activity, total dissolved solids and turbidity.

? Past experience has shown that these parameters are strongly affected by sample turbidity. More representative water-quality data will be obtained as the wells become better developed due to purging prior to sampling.

The leachate (effluent) sample was collected from the ditch on the south side of the landfill at the location shown on the attached site plan. The ditch contained about 6 to 8 inches of water that was gently flowing east at the time it was sampled. Future leachate samples will be collected at the same location. The sample analysis did not show the elevated gross alpha activity as did the June, 1987 sample.

? The next sampling event is scheduled for early in July, 1988. We will contact you during June to inform you of a more definite sampling schedule.

Mr. Lloyd Fox

-3-

May 16, 1988

Should you have any questions or comments, please do not hesitate to phone.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.

*Henry B. Barker*

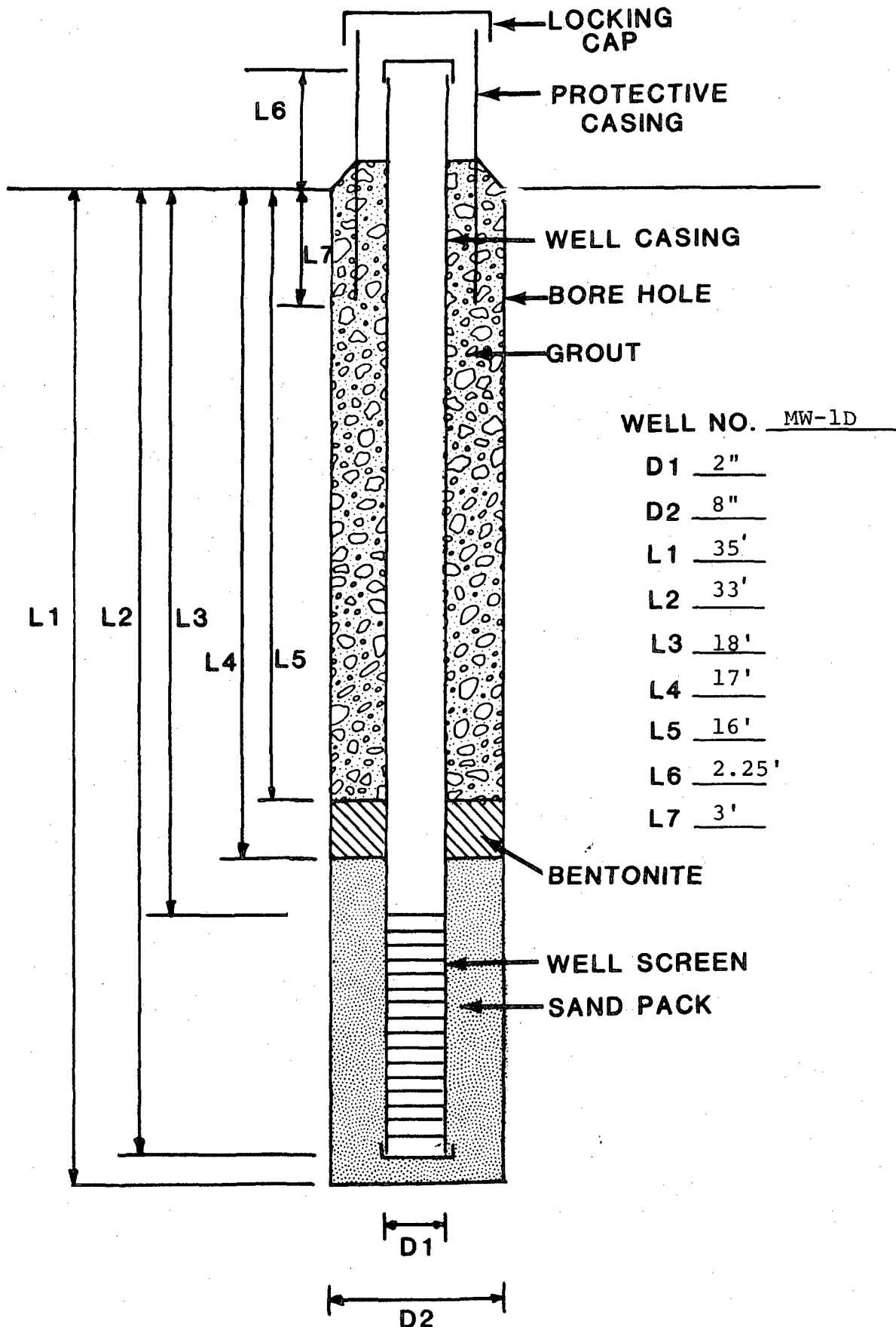
Henry B. Barker, CPGS  
Hydrogeologist

HBB:cg

Enclosures

cc: Raymond D. Anderson (w/enclosure)

PROJECT NAME Naples Airport Authority  
Naples, Florida  
**WELL CONSTRUCTION DIAGRAM**



## WELL LOG

OWNER

Naples Airport Authority

LEGGETTE, BRASHEARS GRAHAM, INC.

Naples, Florida

CONSULTING GROUND-WATER GEOLOGISTS

1211 NORTH WESTSHORE BLVD.  
TAMPA, FLORIDA 33607

WELL NO. MW-1D

DATE 3/31/88 PAGE 1 OF 1 PAGES

	DEPTH IN FEET		DESCRIPTION
	FROM	TO	
LOCATION	6 feet east of		
	Well MW-1S		
	0	3	SAND, fine to very fine, white.
DATE COMPLETED	3	8	SAND, fine, dark brown.
DRILLING COMPANY	9	16	MARL, calcareous; trace of very fine
DRILLING METHOD			4" I.D. Hollow-stem auger sand; tan.
SAMPLING METHOD	16	35	Grab samples Limestone, fine grained; some tan
SAMPLES EXAMINED BY			Henry B. Barker marl; tan, soft.
REFERENCE POINT		35	Land Surface End of Boring.
ELEVATION			8.93' MSL
WELL CONSTRUCTION			
SCREEN			15' slotted PVC
DIAM.			2-inch SLOT NO. 0.010
SETTING			18 - 33' bls
GRAVEL PACK			20/30 Silica Sand
			17 - 33' bls
CASING			2" PVC 0 - 18'
DEVELOPMENT			Pumping
PUMPING TEST DATE			May 31, 1988
DURATION			2 hours
STATIC LEVEL			7.54' T.O.C.
PUMPING LEVEL			30' T.O.C.
YIELD			1 gpm
REMARKS:			(T.O.C.) Top of Casing