

SINCE RESEARCH CORPORATION  
Materials and Research, 2323 West Joppa Road  
Brooklandville, Maryland 21022

MEMORANDUM

July 3, 1975

To: Mr. William B. Greene  
From: A. Halseem Tahir A 11 7  
13175  
Subject: Contract BC 246-043-815  
Allied Chemical Company Property

At the request of IDBC we initiated an extensive chemical analysis of soil samples furnished by your office. A summary of test results and a brief report is attached.

Obviously the area is infested with problems. Of particular interest are the following conditions:

- 1) Unusually high concentration of sulfates
- 2) Low pH or acidic conditions
- 3) Corrosive Environments

We believe that the conditions as they occur will have an extremely deleterious effect on construction materials such as normal portland cement concrete and steel. It is suggested that the Design Consultants look into the possibility of using an effective protective system for the sub-structure.

Att.

AHT/mf

cc: Mr. N. L. Smith, Jr.

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SP39

MATERIALS AND RESEARCH  
 Bureau of Tests

July 2, 1975

Summary of Chemical Test Results  
 Allied Chemical Company  
 Property

Contact: EC246-043-815

SPLE	ALUM.	CALCIUM	CHROMIUM	COPPER	IRON	LEAD	MAGNESIUM	NICKEL	POTASSIUM	SODIUM	ZINC	SO <sub>3</sub>	PH	CL
3.4	4.8	2.0	0.2	6.3	0.5	2.1	0.0	0.0	0.1	0.1	2.4	10.1	75	
8.7	11.4	4.4	0.0	19.7	0.0	6.8	0.1	0.0	0.2	0.0	6.5	11.1	75	
0.6	0.7	0.7	0.3	2.4	0.7	0.6	0.0	0.0	0.0	0.0	0.2	7.2	187	
0.9	0.6	0.0	0.8	2.7	1.6	0.4	0.0	0.0	0.0	0.0	0.2	7.4	123	
1.1	6.9	0.3	0.2	5.2	1.1	2.3	0.0	0.1	0.1	0.0	3.1	7.1	189	
2.0	1.0	0.6	0.0	4.0	0.3	0.6	0.0	0.1	0.1	0.0	4.2	7.5	157	
0.1	2.1	0.2	0.1	2.3	0.1	0.3	0.0	0.0	0.0	0.0	0.0	10.3	53	
4.5	6.7	2.8	0.1	10.7	0.2	3.6	0.0	0.0	0.1	0.1	1.5	9.9	58	
7.7	10.9	4.2	0.0	19.2	0.0	6.8	0.1	0.0	0.2	0.0	1.6	6.5	106	
0.8	4.1	0.3	0.5	3.1	1.4	1.0	0.0	0.1	0.1	0.1	0.7	2.5	40	
0.2	3.9	0.0	0.1	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.2	25	
0.2	3.7	0.1	0.0	0.9	0.8	0.1	0.0	0.1	0.0	0.0	23.4	7.3	302	
0.4	6.3	0.0	0.0	1.5	0.0	0.8	0.0	0.0	0.0	0.0	18.1	7.0	2.0	
1.1	5.4	0.0	0.0	7.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	10.7	143	
0.8	4.2	1.8	0.3	2.4	1.5	0.6	0.0	0.1	0.4	0.4	4.2	8.2	148	
1.9	4.2	2.2	0.6	18.6	1.6	2.5	0.0	0.0	0.3	0.4	1.1	6.9	648	
0.3	7.4	0.0	0.0	0.3	0.0	2.2	0.0	0.0	0.2	0.0	18.7	6.6	499	
0.1	6.2	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	14.7	6.5	0	
0.3	1.5	0.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.3	245	
0.4	11.4	0.0	0.0	2.4	0.0	0.3	0.0	0.0	0.1	0.1	4.5	6.3	155	
1.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.9	140	
0.7	2.1	0.1	0.2	11.3	1.2	0.6	0.0	0.0	0.3	0.3	6.2	7.9	622	
2.0	1.9	0.4	0.1	3.8	0.2	1.0	0.0	0.1	0.1	0.1	4.5	8.3	622	
1.2	0.1	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.5	173	
0.9	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.9	5.7	0.0	
1.7	0.9	0.0	0.0	3.8	0.1	0.1	0.0	0.0	0.1	0.1	31.1	6.3	1376	
0.6	2.2	0.0	0.0	6.2	0.0	0.1	0.0	0.0	0.0	0.0	3.1	6.5	247	
0.9	6.6	0.0	0.4	1.0	0.0	0.1	0.0	0.0	0.1	0.1	28.4	6.4	1531	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	8.3	50	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	6.4	59	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	6.8	700	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.7	79	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7.1	146	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.6	179	

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