

748-3901



MICHAEL J. WALLIS
DIRECTOR OF WASTEWATER

February 7, 1995

Jay Murphy →
Bureau of Electricity
PO Box # Alameda
CA - 94501

Mr. Dick Rudloff
Public Works Coordinator
CITY OF ALAMEDA
City Hall, Room 204
2263 Santa Clara Avenue
Alameda, CA 94501-4455

RE: KRUSI PARK - GROUNDWATER ANALYSES

Dear Mr. Rudloff:

I am forwarding to you copies of the laboratory analytical results for groundwater samples that were taken from the two wells, W1 and W2, in the ballfields at Krusi Park on January 19, 1995. The attached site map identifies the sample and well locations.

Sample L10702-1 was taken from W2 and L10702-2 is a duplicate sample; sample L10702-3 was taken from W1 and L10702-4 is a duplicate sample. The samples were filtered prior to the metals analysis, EPA method 6020, which differs from the procedure performed on the samples in our August 19, 1994, **Soil and Groundwater Investigation Report**. Those samples were not filtered, but were digested prior to the metals analysis. Filtering the samples more closely represents element concentrations found in the groundwater only, without a contribution from soil particulates and resembles existing site conditions.

I am forwarding a copy of this correspondence and the lab results to Madhulla Logan, Alameda County Health Services, per her request to assist in her determination for any further remedial action at the park. She will be forwarding the groundwater information to the Regional Water Quality Control Board for review and comment.

It is necessary that a final determination for the status of the site is made prior to the reading of the property agreement at

Mr. Dick Rudloff
February 7, 1995
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the City Council meeting on March 7. Please call me if you have any questions regarding this information or to discuss the project.

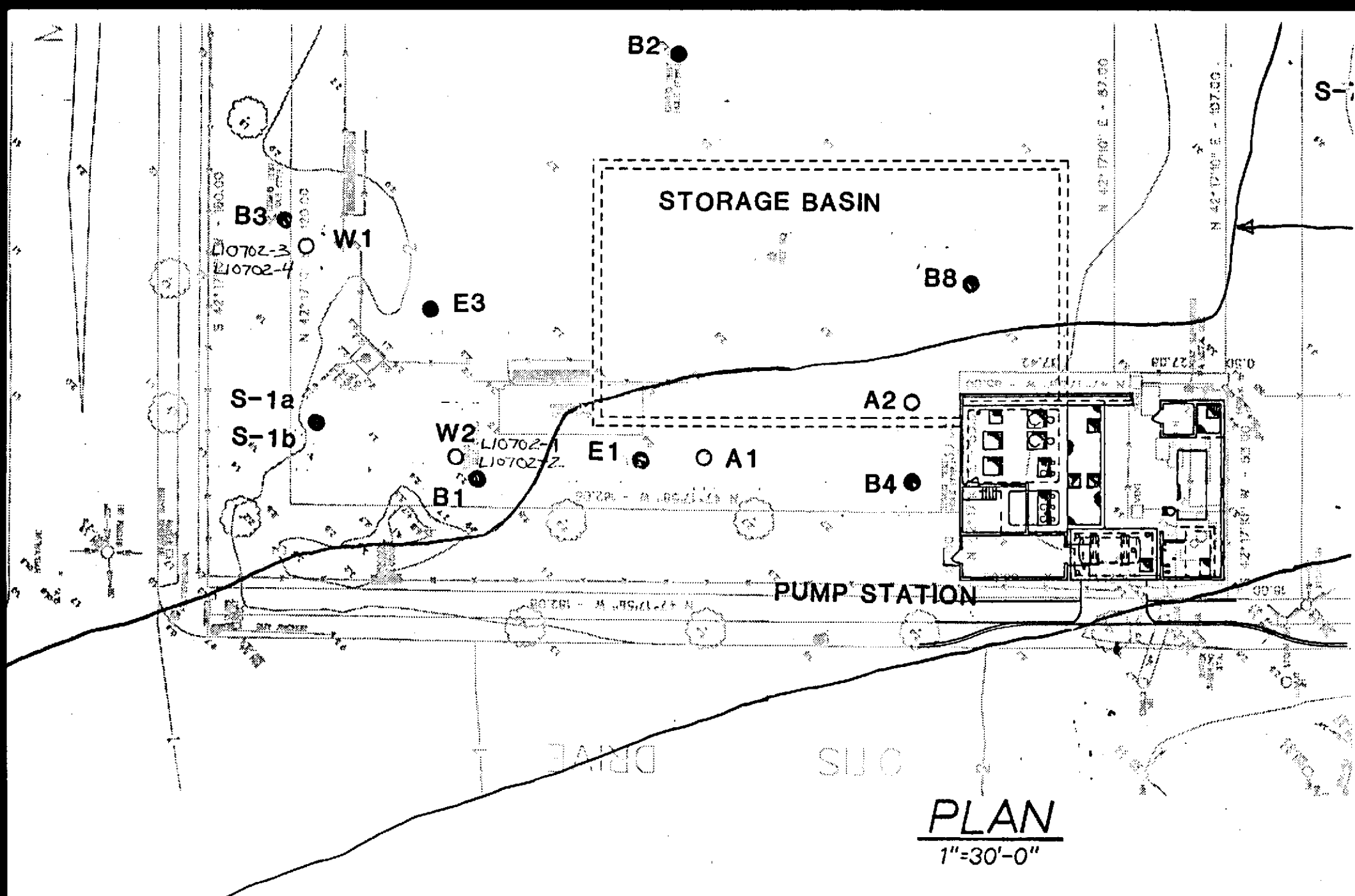
Sincerely,



Dean DiGiovanni
Project Manager

PC56V.C061
PMS_031.045

cc: Madhulla Logan
Alameda County Health Agency
Division of Hazardous Materials
1131 Harbor Bay Parkway
Alameda, CA 94502
JDP
RGS



REUSE OF DOCUMENTS

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VERIFIED SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"



ANALYTICAL REPORT

Prepared for: Dean DiGiovanni

Mail Slot: #702

Date: February 6, 1995
Login: L10702
LSR: B926-9501-1
Site: Pump Station C

Submitted by: Dan Jackson Senior Chemist

Reviewed By: Jeannette V. Weber Client Services Supervisor

Reported By: William M. Ellgas Manager Laboratory Services

Legend to the Report Qualifier Flags:

All Analyses

- * = Duplicate Outside Control Limits
B = Analyte Detected in Blank
LA= Lost Analysis
N = Spiked Sample Recovery Outside Control Limits
U = Analyte Not Detected

Metals Only

- + = Calibration Correlation Coefficient <0.995
E = Estimated Value
M = Duplicate Injection Precision not Met
S = Method of Standard Additions Used
W = Post-digestion Spike (HGA) Outside Control Limits

Organics Only

- A = Suspected Aldol-Condensation Product
C = GC/MS Confirmation
D = Compounds Using Secondary Dilution Factor
E = Concentration Outside Calibration Range
J = Estimated Value
N = Presumptive Evidence of a Compound
P = Pesticide/Aroclor column difference > 25%

Microbiology Only

- < = Less Than
> = Greater Than
~ = Approximately

EAST BAY MUNICIPAL UTILITY DISTRICT

ADMINISTRATION
375 11th STREET • OAKLAND, CA 94607-4240
TEL: (510) 835-3000

LABORATORY
2020 WAKE AVENUE • OAKLAND, CA 94607
TEL: (510) 287-1722 OR 1794 • FAX: (510) 465-5462

MAIL
P.O. BOX 24055 • OAKLAND, CA 94623-1055
TEL: (510) 835-3000

EBMUD LABORATORY SERVICES
 PO Box 24055
 Oakland, CA 94623

 Phone (510) 287-1432
 FAX (510) 465-5462

Analytical Results Report

Project Number: B926-9501-1
 Sample Id: L10702-1
 Site: COL SYST SD1
 Locator: SO PP C
 Collect Date/Time: 19-Jan-95 09:58
 Comments: Filter Metals prior to Anal

Parameter	Units	Qual	Result	Det. Lim.
EPA 6020	-			-
AG	ug/l	U	3.00	3.00
BA	ug/l		110.	10.0
BE	ug/l	U	2.00	2.00
CD	ug/l	U	1.00	1.00
CO	ug/l	U	2.00	2.00
CR	ug/l		5.20	0.600
CU	ug/l	U	30.0	30.0
MO	ug/l		2.00	2.00
NI	ug/l		12.0	8.00
PB	ug/l		40.0	10.0
SB	ug/l	U	1.00	1.00
TL	ug/l		3.00	1.00
V	ug/l	U	5.00	5.00
ZN	ug/l	U	20.0	20.0
EPA 7470	-			-
HG	mg/l	U	0.00005	0.00005
TSS	mg/l		57.	-
VSS	-			-
EPA 206.3	-			-
AS	mg/l	U	0.00100	0.00100
EPA 270.3	-			-
SE	mg/l		0.00240	0.00040

Qualifiers Described on Cover Page.

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Analytical Results Report

Project Number: B926-9501-1
 Sample Id: L10702-2
 Site: COL SYST SD1
 Locator: SO PP C
 Collect Date/Time: 19-Jan-95 09:58
 Comments: Filter Metals prior to Anal

Parameter	Units	Qual	Result	Det. Lim.
EPA 6020	-			-
AG	ug/l	U	3.00	3.00
BA	ug/l		120.	10.0
BE	ug/l	U	2.00	2.00
CD	ug/l	U	1.00	1.00
CO	ug/l	U	2.00	2.00
CR	ug/l		4.30	0.600
CU	ug/l		40.0	30.0
MO	ug/l		3.00	2.00
NI	ug/l		35.0	8.00
PB	ug/l		30.0	10.0
SB	ug/l	U	1.00	1.00
TL	ug/l		3.00	1.00
V	ug/l	U	5.00	5.00
ZN	ug/l	U	20.0	20.0
EPA 7470	-			-
HG	mg/l	U	0.00005	0.00005
EPA 206.3	-			-
AS	mg/l		0.00200	0.00100
EPA 270.3	-			-
SE	mg/l	U	0.00040	0.00040

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Analytical Results Report

Project Number: B926-9501-1
 Sample Id: L10702-3
 Site: COL SYST SD1
 Locator: SO PP C
 Collect Date/Time: 19-Jan-95 10:10
 Comments: Filter Metals prior to Anal

Parameter	Units	Qual	Result	Det. Lim.
EPA 6020	-			-
AG	ug/l	U	3.00	3.00
BA	ug/l		20.0	10.0
BE	ug/l	U	2.00	2.00
CD	ug/l	U	1.00	1.00
CO	ug/l	U	2.00	2.00
CR	ug/l	U	0.600	0.600
CU	ug/l		50.0	30.0
MO	ug/l		12.0	2.00
NI	ug/l		9.00	8.00
PB	ug/l		10.0	10.0
SB	ug/l	U	1.00	1.00
TL	ug/l		1.00	1.00
V	ug/l		14.0	5.00
ZN	ug/l	U	20.0	20.0
EPA 7470	-			-
HG	mg/l	U	0.00005	0.00005
TSS	mg/l		410	-
VSS	-			-
EPA 206.3	-			-
AS	mg/l	U	0.00100	0.00100
EPA 270.3	-			-
SE	mg/l	U	0.00040	0.00040

Qualifiers Described on Cover Page.

EBMUD LABORATORY SERVICES

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Oakland, CA 94623

Phone (510) 287-1432
FAX (510) 465-5462

Analytical Results Report

Project Number: B926-9501-1
Sample Id: L10702-4
Site: COL SYST SD1
Locator: SO PP C
Collect Date/Time: 19-Jan-95 10:10
Comments: Filter Metals prior to Anal

Parameter	Units	Qual	Result	Det. Lim.
EPA 6020	-			-
AG	ug/l	U	3.00	3.00
BA	ug/l		20.0	10.0
BE	ug/l	U	2.00	2.00
CD	ug/l	U	1.00	1.00
CO	ug/l	U	2.00	2.00
CR	ug/l	U	0.600	0.600
CU	ug/l		70.0	30.0
MO	ug/l		14.0	2.00
NI	ug/l		9.00	8.00
PB	ug/l		10.0	10.0
SB	ug/l	U	1.00	1.00
TL	ug/l		1.00	1.00
V	ug/l	U	5.00	5.00
ZN	ug/l	U	20.0	20.0
EPA 7470	-			-
HG	mg/l	U	0.00005	0.00005
EPA 206.3	-			-
AS	mg/l	U	0.00100	0.00100
EPA 270.3	-			-
SE	mg/l	U	0.00040	0.00040

Qualifiers Described on Cover Page.

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Prelog or
Login No.: L10702

Project Title

Account or Project: *8926*

job # 29206

Client PM:
Tel No.:
Lab PM:

Sampled by: M LUKA

Sample Date: 19-JAN-95 *x1604*

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Check C	No. P	Cont.	Tests Required	Comments/Remarks
L10702-1	GRAB	09:58	MISC	MISC	GroundH2O GroundH2O	1			TSS EPA 160.2 ICP 14:F EPA 6010	pump station C ground water
L10702-2	QCFR	09:58	MISC	MISC	GroundH2O	1			ICP 14:F EPA 6010	pump station C ground water
L10702-3	GRAB	10:10	MISC	MISC	GroundH2O GroundH2O	1			TSS EPA 160.2 ICP 14:F EPA 6010	pump station C ground water
L10702-4	QCFR	10:10	MISC	MISC	GroundH2O	1			ICP 14:F EPA 6010	pump station C ground water

Signature

Print Name

Time

Date

Relinquished by

Marie Kulka

MARIE KULKA

1130

1/19/95

Received by

Relinquished by

Received by

Relinquished by

Received by

Brian Belkenneth

BELKENNETH

1130

1/19/95

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

Check C = Appropriate Container Type Verified (Y/N)

Check P = Appropriate Preservation Verified (Y/N)