

February 14, 1995

Mr. Sum Arigala
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street
Oakland, CA 94612

RE: Groundwater Analysis for Krusi Park, Alameda

Mr. Arigala:

In my telephone conversation today with Ms. Madhulla Logan, Alameda County Health Agency Care Services, she requested that the following documents be forwarded, in the essence of time, from our office for your review:

- o Soil and Groundwater Investigation Report (Krusi Park, Alameda) August 19, 1994;
- o risk assessment for lead in soil at Krusi Park performed by ACC Environmental for the City of Alameda.
- o correspondence Alameda County Health Care Services Agency: EBMUD, September 27, 1994;
- o EBMUD Analytical Reports for groundwater at Krusi Park, February 6, 1995.

Ms. Logan stated that she will be meeting with you after you have reviewed the information to resolve the issue of contamination in the soil and groundwater at Krusi Park.

Please call Ms. Logan at 567-6764 if you have any questions regarding this information.

Sincerely,



DEAN DIGIOVANNI
Project Manager

PMS_045.055
cc: JDP
RGS

Mr. Dick Rudloff
Public Works Coordinator
City of Alameda

Ms. Madhulla Logan
Alameda County Health Agency

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

December 15, 1994

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Laura Timothy
City of Alameda
2263 Santa Clara, Room 207
Alameda, CA - 94501

Reference: Krusi Park, bound by Otis Drive, Mound Street and
Calhoun Street, Alameda, CA

Dear Ms. Timothy:

I am in receipt of the document "Environmental Soils and
Groundwater Investigation" dated August 19, 1994 submitted by
East Bay Municipal Utility District (EBMUD) for the referenced
property. This document has brought to our attention, the
potential lead contamination that could be present at the Kruci
Park site.

**Based on the information presented to us, additional
investigation may be needed to adequately characterize both soil
and groundwater contamination at the referenced property.
Hence submit a workplan to this Department within 60 days. Also,
as I mentioned in our telephone conversation, please submit a
deposit of \$1500 to cover oversight cost pertaining to this case.
The deposit refund mechanism is authorized in Alameda County
Ordinance Code Secion 3-140.5. You may call me with any
questions or concerns at (510) 567-6764.**

Sincerely,

Madhulla Logan
Hazardous Material Specialist

October 12, 1994

Juliet Shin
Alameda County Health Services
Hazardous Materials Division
1131 Harbor Bay Parkway
Alameda, CA 94501

Dear Ms. Shin:

Re: Pump Station C and Storage Basin Project (Krusi Park)

Thank you for meeting with District staff on October 5 to discuss major environmental projects for which you will be providing guidance and oversight. Also, please thank Madhulla for me. An action item from that meeting was to provide you with a more detailed description of the construction activities for replacing the four ball fields as part of the Pump Station C and Storage Basin Project at Krusi Park. This letter provides that further detail.

Page 3 of the Soil and Groundwater Investigation Report for this project outlines the work for constructing the storage basin and replacing the four ball fields. For clarification, all the turf and the entire irrigation system for the four playing fields will be replaced following construction of the storage basin. The anticipated sequence and detailed description of the construction activities is as follows and incorporates the groundwater mitigation requested in your September 27 correspondence:

- o Backfill storage basin with sand to within 2 ft. of the top of the Younger Bay Mud layer. Backfill the final 10 ft of the excavation to subgrade with select imported clay fill to form an impervious ring around the basin that will prevent cross contamination into the sand backfill that connects to the sand aquifer.
- o The existing turf will be stripped with a construction blade (either a bull dozer or a grader) to 4 in. below the existing grade and will be disposed of immediately at the appropriate landfill.
- o To prepare the subgrade for new grass seed and to grade the area for proper drainage, the soil will be scarified 6 in. deep using rippers on the back of a construction blade.
- o Imported top soil and fertilizers will be spread over the subgrade and mixed with the existing soil using a construction blade.

Juliet Shin
October 12, 1994
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- o The site will be graded to the final design elevations using a grader.
- o A trenching machine will be utilized to dig narrow trenches for irrigation piping that will be installed to a depth of 1.5 ft. below grade. The trenches will be backfilled with existing soil at the site.
- o Grass seed or sod will be planted over the final grade of amended soil to complete the turf replacement.
- o Four sets of existing backstops and fences will be replaced with new facilities at the existing ball diamonds. The replacement includes removing the old concrete and steel pole foundations estimated at 6 ft. deep and installing similar new foundations. New holes 1 ft. in diameter and 8 ft. deep will be drilled and backfilled with concrete and the structural steel poles will be installed while the concrete is wet.

All the mitigation measures described in the report and your correspondence will be included in the construction specifications and enforced by District construction inspectors who will oversee the work full-time.

As discussed in your telephone conversation with Dean DiGiovanni on October 3, the District is not liable for the existing soil and groundwater contamination in the park. The City has been identified as the responsible party for the contamination and the District is not liable for the remediation of the existing conditions in the park provided that the contamination is not proliferated by the District's construction activities. The mitigation measures will prevent spreading the contamination.

We hope this correspondence clarifies any ambiguities regarding the work to be performed in Krusi Park. If you have any questions regarding the project, please call Dean DiGiovanni at 287-1656.

Sincerely,

 → 287 1629

RICHARD G. SYKES
Acting Regulatory Compliance Officer

RGS:la
PM4_256.015

cc: JDP, DAD

Spoke to Dean Di Giovanni to remind 10/18/94
him that restoration work should not be
implemented before the County determines the potential
extent of soil contamination and the City of Alameda
addresses the problem. Also, I stated that a more
detailed work plan addendum would need to be
submitted outlining safety measures for restoration
if & when it is ready to be implemented. - J.S.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

September 27, 1994

Mr. Dean DiGiovanni
East Bay Municipal Utility District
(EBMUD)
Special District No. 1
P.O. Box 24055
Oakland, CA 94623

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Re: Pump Station C and Storage Basin Project, Krusi Park,
Alameda

Dear Mr. DiGiovanni,

This office has reviewed EBMUD's Soil and Ground water Investigation Report, dated August 19, 1994, and CH2M Hill's Geotechnical Reports, dated February 24, and March 14, 1994, for the above site. The proposal for the construction of EBMUD's storage basin at Krusi Park is acceptable to this office with the following reminders/requirements:

- o In order to prevent or minimize the proliferation of potentially hazardous airborne soil particles, please be reminded to water all soils down during excavation and construction activities (including vehicular traffic across the site). Lead-containing airborne particles may otherwise pose a threat to workers, pedestrians, and other people in the surrounding area. A dustmeter is recommended at the site during work hours to insure that the particulate levels don't exceed levels established by NIOSH/OSHA.
- o It is the understanding of this office that **all** of the excavated fill and bay mud material will be hauled off site, on the same day it is excavated, to the appropriate certified disposal sites. It is also the understanding of this office that this soil will be properly characterized for the contaminant constituents of concern (lead, TRPH, etc), and transported properly to prevent any particulates from escaping during the move. According to our phone conversation on September 27, 1994, the excavated Merritt Sand will be reused for backfilling around the proposed basin.
- o This office is concerned that the Merritt sand placed around the basin will act as a conduit for the lead-contaminated ground water from the upper fill perched water into the Merritt sand aquifer. Therefore, EBMUD will be

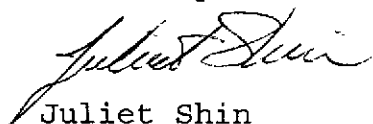
Mr. Dean DiGiovanni
Re: Krusi Park
September 27, 1994
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required to impede this potential cross contamination by placing a ring of impermeable material around the basin at depth intervals commensurate to the observed Younger Bay Mud.

Lastly, please be aware that the acceptance of the storage basin plan **does not** suggest that the soil and ground water contamination observed in the other areas of Krusi Park are acceptable to this office. At this time, it appears that the remaining surficial lead contamination in the soil may pose a threat to the children who regularly utilize the park and the ground water contamination may pose a future aquatic threat. Consequently, the portion of the site, outside of the proposed storage basin area, has been transferred to Madhulla Logan, Hazardous Materials Specialist, in our office for further investigative oversight.

If you have any questions or comments, please contact me at (510) 567-6700.

Sincerely,



Juliet Shin
Senior Hazardous Materials Specialist

cc: Dick Rudloff
City of Alameda
Public Works Dept.
City Hall, Rm. 204
2263 Santa Clara Ave.
Alameda, CA 94501-4455

Madhulla Logan, Alameda County Hazardous Materials Division

Edgar Howell



September 20, 1994

Juliette Shin
Alameda County Health Services
Hazardous Materials Division
1131 Harbor Bay Parkway
Alameda, CA 94501

Risk Assessment

Ms. Shin:

The East Bay Municipal Utility District (EBMUD) plans to construct a wastewater storage basin and pump station in Krusi Park, Alameda. During preliminary design of the project, environmental sampling of soil and groundwater was conducted throughout the park. The enclosed report, **Soil and Groundwater Investigation, Pump Station C and Storage Basin Project** (EBMUD, August 19, 1994), provides the results of the laboratory analyses and indicates the presence of lead in the soil.

An evaluation of EBMUD's lab results for surface soil samples was performed for the City of Alameda by ACC Environmental to assess the presence of a public health risk from lead. The lab data was analyzed using the Department of Substance Control's Leadsread statistical model. The results of the evaluation conclude that further evaluation of lead in the soil is not warranted.

Please review the two documents to confirm that lead in the soil does not present a risk to public health or to the environment. EBMUD will be distributing a Negative Declaration in October for you to comment on the entire project. Call me at 748-4552 or Dean DiGiovanni, EBMUD Project Manager, at 287-1656 if you have any questions during your review or to schedule a meeting to discuss the studies.

Sincerely,

Dick Rudloff

DICK RUDLOFF
Public Works Coordinator

Enclosures

cc: Dean DiGiovanni, EBMUD (w/o encl.)
Public Works Director (w/o encl.)
Susan Churchill, ACC Environmental (w/o encl.)

Public Works Department, Room 204

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