

EB EAST BAY MUNICIPAL UTILITY DISTRICT
September 1, 2006

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

CERTIFIED MAIL
(Return Receipt Requested)
Certified Mail No. 7003 0500 0004 6346 4679

Mr. Iraj Javandel
Lawrence Berkeley National Laboratory
1 Cyclotron Road, Mail Stop 90-116
Berkeley, CA 94720

FILED
9/6/06

Dear Mr. Javandel:

Re: Wastewater Discharge Permit No. 5034789 1 Revision

This letter informs you that Lawrence Berkeley National Laboratory's wastewater discharge permit (Permit) has been revised to accommodate extending the Permit term from September 8, 2006 to January 6, 2007. Please replace Page No. 7 of the existing Permit with the enclosed page. All Permit terms and conditions shall remain in effect through the period of this extension. Lawrence Berkeley National Laboratory shall submit a technical report in accordance with the Reporting Requirements described on Page No. 2 of the Permit. The report's due date and the respective reporting period are listed below:

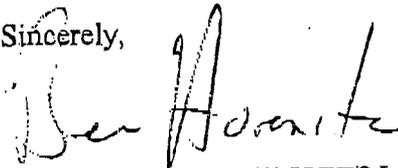
<u>Date Due</u>	<u>Reporting Period</u>
October 8, 2006	March 1, 2006 through September 8, 2006

Lawrence Berkeley National Laboratory shall report to the Environmental Services Division any changes that significantly affect the volume or quality of the wastewater discharge or deviate from the Permit terms and conditions.

Please review the EBMUD Ordinance No 311A-03 and Wastewater Discharge Permit Standard Terms and Conditions, February 2004 Edition at www.ebmud.com.

If you have any questions, please contact Deirdre Mena of the Environmental Services Division at (510) 287-1559.

Sincerely,



BENNETT K. HORENSTEIN
Manager of Environmental Services

BKH:DMM:dmm



WASTEWATER DISCHARGE PERMIT

REVISION EFFECTIVE SEPTEMBER 9, 2002

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GENERAL CONDITIONS

- I. Title I, Section 5 of EBMUD Ordinance No. 311 prohibits the discharge of groundwater to the community sewer. This Permit to discharge treated groundwater is considered a waiver of the prohibition and is issued based on Lawrence Berkeley National Laboratory's application that discharge of pollutants to the community sewer will be minimized and methods to reclaim the groundwater, to the extent technically and economically feasible, have been made.
- II. This Permit is granted to Lawrence Berkeley National Laboratory to discharge treated groundwater only from its facility at One Cyclotron Road in Berkeley, California.
- III. Lawrence Berkeley National Laboratory shall cease discharge of groundwater immediately if not in compliance with any of the Terms and Conditions of this Permit.
- IV. Lawrence Berkeley National Laboratory shall comply with all items of the attached *Standard Terms and Conditions, March 2001 Edition (STC)*.

COMPLIANCE REQUIREMENTS

- I. Lawrence Berkeley National Laboratory shall not discharge any radioactive wastewater into a community sewer except when all of the following conditions are met:
 1. Lawrence Berkeley National Laboratory is authorized to use radioactive material by the Nuclear Regulatory Commission or other governmental agency empowered to regulate the use of radioactive materials.
 2. The radioactive wastewater is discharged in strict conformity with current Nuclear Regulatory Commission regulations and recommendation for safe disposal and in compliance with all rules and regulations of State and local regulatory agencies.
- II. Lawrence Berkeley National Laboratory shall pretreat all groundwater prior to discharging to the side sewer at One Cyclotron Road, Berkeley. Pretreatment shall consist of processes displayed in the following diagrams, at a minimum:
 - *Figure 3, B51 Fire Trail Treatment System Schematic Flow Diagram, 12/20/99*
 - *Figure 4, B46 Treatment System, Schematic Flow Diagram, 8/8/01*
 - *Figure 5, B51 Motor Generator Room Basement Treatment System, 10/3/00*
 - *Figure 6, Building 7 Groundwater Collection Trench Treatment System Schematic Flow Diagram, 12/7/99*
 - *Figure 7, Building 6 Schematic Flow Diagram Treatment System, 8/8/01*
 - *Figure 2, Building 51L Treatment System Schematic Flow Diagram, 8/8/01*
 - *Figure 8, Building 25A Treatment System Schematic Flow Diagram*



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COMPLIANCE REQUIREMENTS (continued)

- III. Lawrence Berkeley National Laboratory shall maintain the pretreatment systems in proper operating condition.
- IV. Lawrence Berkeley National Laboratory shall maintain records of operation and maintenance activities on the pretreatment systems. The records shall include, but not be limited to, flow meter readings from the flow totalizers on the effluent side of each of the pretreatment systems, at a maximum of monthly intervals; maintenance activities performed; description of operational changes; description of visual observations of the unit for leaks or fouling; and offhaul of hazardous wastes. The records shall be available to the District staff upon request.

REPORTING REQUIREMENTS

- I. Violations shall be reported in accordance with Section B of STC.
- II. Lawrence Berkeley National Laboratory shall submit technical reports as required below.

<u>Date Due</u>	<u>Reporting Period</u>
March 31, 2002	September 9, 2001 through February 28, 2002
October 8, 2002	March 1, 2002 through September 8, 2002
March 31, 2003	September 9, 2002 through February 28, 2003
October 8, 2003	March 1, 2003 through September 8, 2003

The technical reports shall contain the following information, at a minimum:

1. Self-monitoring reports prepared in accordance with the "Self-Monitoring Reporting Requirements" of this Permit.
2. Monthly readings from flow totalizers on the effluent side of each pretreatment system.
3. Volume of groundwater pumped and treated during the reporting period, and a total to date.
4. Certification and signature prepared in accordance with Section B Part V of STC, "Signature Requirements".

503-307 2001



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WASTEWATER DISCHARGE LIMITATIONS

Lawrence Berkeley National Laboratory shall not discharge wastewater from the pretreatment systems into a sanitary sewer if the strength of the wastewater exceeds the following:

Regulated Parameter	Daily Maximum (mg/L)
Total Identifiable Chlorinated Hydrocarbons (TICH) ¹	0.5
Polychlorinated biphenyls (PCBs) ²	0.0002

¹As defined in Section E, STC, and includes the following chlorinated hydrocarbons: Bromodichloromethane; Carbon tetrachloride; Chlorobenzene; Chloroethane; Chloroform; Chloromethane; Dibromochloromethane; 1,2-Dichlorobenzene; 1,3-Dichlorobenzene; 1,4-Dichlorobenzene; 1,1-Dichloroethane; 1,2-Dichloroethane; 1,1-Dichloroethene; trans-1,2-Dichloroethene; 1,2-Dichloropropane; cis-1,3-Dichloropropene; trans-1,3-Dichloropropene; Methylene chloride; 1,1,2,2,-Tetrachloroethane; Tetrachloroethene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethene; Trichlorofluoromethane; Vinyl chloride.

²PCBs is defined as the sum of detectable concentration of Arochlors 1016, 1221, 1232, 1242, 1248, 1254 and 1260.



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SELF-MONITORING REPORTING REQUIREMENTS

- I. Lawrence Berkeley National Laboratory shall monitor and obtain representative samples of the wastewater discharged from the pretreatment systems in accordance with Section C of STC.
- II. Self-monitoring reports shall contain all laboratory results and the corresponding chain of custody documentation, and signatory requirements.
- III. The sampling locations are identified as follow:
(Note: Side Sewer #1 (SS#1) is the side sewer that connects to the community sewer at Hearst Avenue. SS#1 conveys the final discharge from the pretreatment systems to combine with other discharges at the facility prior to discharging to the community sewer.)
 1. Samples representative of discharges from the B51 Fire Trail Treatment System to SS#1 are to be obtained from Process Sampling Point #2 (PSP#2). PSP#2 is the sample tap located on the final effluent side of the B51 Fire Trail Treatment System. PSP#2 is indicated in *Figure 3, Building 51 Fire Trail Treatment System Schematic Flow Diagram, 12/20/99.*
 2. Samples representative of discharges from the B46 Treatment System to SS#1 are to be obtained from Process Sampling Point #3 (PSP#3). PSP#3 is the last sample tap located on the final effluent side of the B46 Treatment System. PSP#3 is indicated in *Figure 4, B46 Treatment System, Schematic Flow Diagram, 8/8/01.*
 3. Samples representative of discharges from the Building 51 Motor Generator Room Basement Treatment System to SS#1 are to be obtained from Process Sampling Point #4 (PSP#4). PSP#4 is the sample tap located on the final effluent side of the B51 Motor Generator Room Discharge Sump Treatment System. PSP#4 is indicated in *Figure 5, Building 51 Motor Generator Room Basement Treatment System, 10/3/00.*
 4. Samples representative of discharges from the Building 7 Groundwater Collection Trench Treatment System to SS#1 are to be obtained from Process Sampling Point #5 (PSP#5). PSP#5 is the sample tap located on the final effluent side of the Building 7 Groundwater Collection Trench Treatment System. PSP#5 is indicated in *Figure 6, Building 7 Groundwater Collection Trench Treatment System Schematic Flow Diagram, 12/7/99.*
 5. Samples representative of discharges from the Building 6 Treatment System to SS#1 are to be obtained from Process Sampling Point #6 (PSP#6). PSP#6 is sample tap SP3 located on the final effluent side of the Building 6 Treatment System. PSP#6 is indicated in *Figure 7, Building 6 Treatment System Schematic Flow Diagram, 8/8/01.*



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SELF-MONITORING REPORTING REQUIREMENTS (continued)

6. Samples representative of discharges from the Building 51L Treatment System to Side Sewer No. 1 (SS#1) are to be obtained from Process Sampling Point #7 (PSP#7). PSP#7 is the last sample tap located on the final effluent side of the Building 51L Treatment System. PSP#7 is indicated in *Figure 2, B51L Treatment System Schematic Flow Diagram, 8/8/01*.
 7. Samples representative of discharges from the Building 25A Treatment System to Side Sewer No. 1 (SS#1) are to be obtained from Process Sampling Point #8 (PSP#8). PSP#8 is the last sample tap located on the final effluent side of the Building 51L Treatment System. PSP#7 is indicated in *Figure 8, Building 25A Treatment System Schematic Flow Diagram*.
- IV. Groundwater discharge to the sanitary sewer shall be sampled at the following locations at the indicated frequency, at a minimum, for the following parameters:

Parameter	Sample Type	EPA Method	PSP#2, PSP#3, PSP#4, PSP#5, PSP#6, PSP#7, PSP#8
TICB	grab	8260/624	quarterly



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Rates Effective July 1, 2005, or
Revised Rates Approved by EBMUD Board of Directors thereafter

FEES AND WASTEWATER CHARGES

The following fees and charges are due when billed by the District:

Permit Fee: (Effective July 1, 2004)	\$1,507.00 /year (PAID)
(Effective July 1, 2005)	\$1,657.00 /year

Monthly Monitoring Charge:	\$294.25
Monthly Wastewater Disposal Charge	\$200.18
Monthly Wastewater Capacity Charge	\$0.00
Total Monthly Charges =	\$494.43

The District may change the terms and conditions of a Wastewater Discharge Permit, including changing the average limits on the elements of wastewater strength and rates and charges, from time to time as circumstances may require. Treatment rate updates shall be provided by means of a rate revision letter. The District shall allow a discharger reasonable time to comply with any District required changes in the permit except that a change in average limits of wastewater strength shall immediately affect calculation of the wastewater disposal charge.

Charges listed in this Permit will be assessed on EBMUD bills in accordance with the EBMUD Meter Reading Schedule.

Authorization

Permit Holder shall report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premises or operations that significantly change the quality or volume of the wastewater discharge or deviation from the terms and conditions under which this permit is granted.

Permit Holder is hereby authorized to discharge wastewater to the community sewer, subject to said Applicant's compliance with EBMUD Wastewater Control Ordinance as well as permit terms and conditions.

Effective: September 9, 2001

Expiration: September 8, 2006

Director, Wastewater Department

August 1, 2005

Date