

# Final ENVIRONMENTAL IMPACT REPORT

## Richmond Bay Campus Long Range Development Plan

STATE CLEARINGHOUSE NO. 2013012007

Volume I

April 2014

*Prepared for:*

University of California

*Prepared by:*

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## **PREFACE**

The University of California (UC) has prepared this Final Environmental Impact Report (EIR) for the proposed Richmond Bay Campus (RBC) Long Range Development Plan. The Final EIR, along with the proposed 2014 RBC Long Range Development Plan, has been submitted to the UC Board of Regents for its consideration. The UC Board of Regents is scheduled to consider certifying the Final EIR and adopting the 2014 RBC Long Range Development Plan at its May 2014 meeting in Sacramento, California.

This Final EIR includes two volumes. Volume I is a complete, revised, and updated version of the Draft EIR that was circulated for public review for 68 days beginning on November 15, 2013. This version of the EIR incorporates revisions undertaken in response to comments on the November 15, 2013 Draft EIR. Volume I also contains a Mitigation Monitoring and Reporting Plan, which the University proposes for the purpose of implementing and tracking EIR mitigation measures, a new document—a Coastal Terrace Prairie Management Plan—that the EIR now includes as Appendix G, and the proposed 2014 Long Range Development Plan. The proposed 2014 RBC Long Range Development Plan may also be viewed at [http://richmondbaycampus.lbl.gov/environmental\\_documents.html](http://richmondbaycampus.lbl.gov/environmental_documents.html).

Volume II of this Final EIR contains copies of the comment letters, electronic correspondence, petitions, and oral comments received by the University during the Draft EIR public comment period. Following these are responses to each of the comments. The next section excerpts and highlights the changes and revisions to the Draft EIR that the University has incorporated into the updated EIR in Volume I.

On the inside back cover of Volume I of this Final EIR, the jacket contains a compact disk with the EIR appendices. The contents of this compact disk are listed in the Final EIR Table of Contents.

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## Acronyms, Abbreviations, and Special Terms

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µg/L	microgram per liter
µg/m <sup>3</sup>	microgram per cubic meter
AB	Assembly Bill
ABAG	Association of Bay Area Governments
AC Transit	Alameda-Contra Costa Transit
adp	average daily population
ARB	California Air Resources Board
AST	aboveground storage tank
ATCM	Air Toxic Control Measure
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
BCDC	San Francisco Bay Conservation and Development Commission
bgs	below ground surface
BMP	best management practice
BP	Before Present
Btu	British thermal unit
Btu/h	British thermal unit hour
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalARP	California Accidental Release Prevention
CalEEMod	California Emissions Estimator Model
Cal/EPA	California Environmental Protection Agency
Cal/OSHA	California Division of Occupational Safety and Health
Caltrans	California Department of Transportation
CAP	climate action plan
CBC	California Building Code
CBIA	California Building Industry Association
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFC	chlorofluorocarbon
CFR	Code of Federal Regulations
CH <sub>4</sub>	methane
CMP	congestion management program
CNDDB	California Natural Diversity Database

## Acronyms, Abbreviations, and Special Terms (Continued)

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CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
CRHR	California Register of Historical Resources
CWA	Clean Water Act
dB	decibel
dBA	A-weighted decibel
DOE	US Department of Energy
DOT	US Department of Transportation
DPM	diesel particulate matter
DTSC	California Department of Toxic Substances Control
EBMUD	East Bay Municipal Utility District
EH&S	Environmental Health and Safety
EIR	environmental impact report
EISA	Energy Independence and Security Act
EPA	US Environmental Protection Agency
EPC	Environmental Performance Criteria
ESA	Endangered Species Act
FSW	Field Sampling Workplan
GHG	greenhouse gas
gpm	gallons per minute
gsf	gross square feet
GWP	Global Warming Potential
HAP	hazardous air pollutant
HCFC	hydrochlorofluorocarbon
HEPA	high-efficiency particulate air
HFC	hydrofluorocarbon
HHRA	human health risk assessment
HMX	octogen
HVAC	heating, ventilation, and air conditioning
I	Interstate
I&I	infiltration and inflow
in/sec	inch per second
IPCC	United Nations Intergovernmental Panel on Climate Change
kBtu	kilo-British thermal unit

## Acronyms, Abbreviations, and Special Terms (Continued)

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kBtu/h	kilo-British thermal unit hour
kv	kilovolt
kW	kilowatt
kWh	kilowatt hour
Labs21	Laboratories for the 21st Century
LBNL	Lawrence Berkeley National Laboratory
LEED	Leadership in Energy and Environmental Design
L <sub>eq</sub>	equivalent sound level
LID	low-impact development
LOS	level of service
LRDP	Long Range Development Plan
M&O	Management and Operating
MBTA	Migratory Bird Treaty Act
MEPP	Master Emergency Program Plan
MFA	mercury fulminate area
mgd	million gallons per day
mgY	million gallons per year
MTCO <sub>2e</sub>	metric ton of carbon dioxide equivalent
MMTCO <sub>2e</sub>	million metric ton of carbon dioxide equivalent
MW	megawatt
MWh	megawatt hour
MWTTP	Main Wastewater Treatment Plant
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAS	Naval Air Station
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NO <sub>2</sub>	nitrogen dioxide
NOP	Notice of Preparation
NO <sub>x</sub>	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NRLF	Northern Regional Library Facility
NWP	nationwide permit
OPR	California Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon

## Acronyms, Abbreviations, and Special Terms (Continued)

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PCB	polychlorinated biphenyl
PCE	tetrachloroethylene
PFC	perfluorocarbon
PG&E	Pacific Gas and Electric
PM	particulate matter
PM <sub>10</sub>	inhalable particulate matter
PM <sub>2.5</sub>	fine particulate matter
ppm	part per million
PPV	peak particle velocity
PRC	Public Resources Code
RAW	Removal Action Workplan
RBC	Richmond Bay Campus
RCRA	Resource Conservation and Recovery Act
RDX	cyclotrimethylenetrinitramine
RFD	Richmond Fire Department
RFS	Richmond Field Station
RMSD	Richmond Municipal Sewer District
ROG	reactive organic gas
RPD	Richmond Police Department
RWQCB	Regional Water Quality Control Board
SCR	Site Characterization Report
SB	Senate Bill
SF <sub>6</sub>	sulfur hexafluoride
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SO <sub>2</sub>	sulfur dioxide
TAC	toxic air contaminant
TCE	Trichloroethylene
TDM	Transportation Demand Management
TNT	2,4,6-trinitrotoluene
TPH	total petroleum hydrocarbon
UBC	Uniform Building Code
UC	University of California
UCPD	University of California Police Department
USACE	US Army Corps of Engineers
USC	United States Code
USFWS	US Fish and Wildlife Service

## **Acronyms, Abbreviations, and Special Terms (Continued)**

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UST	underground storage tank
VMT	vehicle miles travelled
VOC	volatile organic compound
WCCIWMA	West Contra Costa Integrated Waste Management Authority
WCCUSD	West Contra Costa Unified School District
WSA	Water Supply Assessment
WTP	water treatment plant
WWTP	wastewater treatment plant