

# ENVIRONMENTAL REVIEW PROCESS FOR THE INTEGRATIVE GENOMICS BUILDING PROJECT



## **Environmental Planning**

- Site Planning
- Sustainability / LEED
- Environmental Compliance
- Health & Safety

## **NEPA**

Department of Energy

## **CEQA**

University of California



CEQA University of California



## **Environmental Analysis & Checklist**

- CEQA 15168(c)(2), 15162
- 2006 LRDP EIR
- 30-Day Comment Period
- Address Comments
- Inform Regents IGB Decision

#### University of California Lawrence Berkeley National Laboratory

#### INTEGRATIVE GENOMICS BUILDING PROJECT

**Environmental Analysis and Checklist** 



Prepared By: University of California Lawrence Berkeley National Laboratory One Cyclotron Road Berkeley, Califomia 94720



## **Environmental Analysis & Checklist**

 Setting, Project Description, Impacts, Cumulative Impacts, Alternatives

Aesthetics • Air Quality •

Biological • Cultural • Geology •

Greenhouse Gases • Hazards •

Hydrology & Water Quality •

Land Use • Noise • Population &

Housing • Public Services •

Transportation • Utilities

University of California Lawrence Berkeley National Laboratory

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## Environmental Analysis & Checklist

No New Significant Impacts

University of California Lawrence Berkeley National Laboratory

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## Environmental Analysis & Checklist

Setting

**Project Description** 

**Impacts** 

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#### INTEGRATIVE GENOMICS BUILDING PROJECT

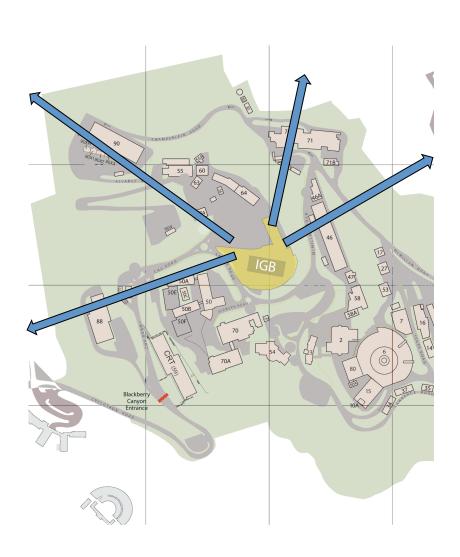
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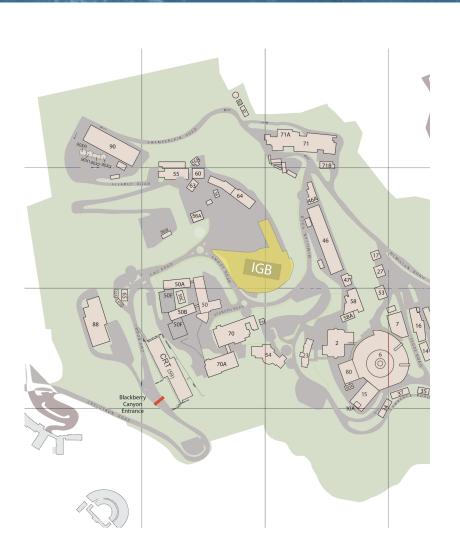


- Lab Interior
- Buffered
- Completely developed
- No Surface Waters
- Flat and Stable
- VOCS in Soils

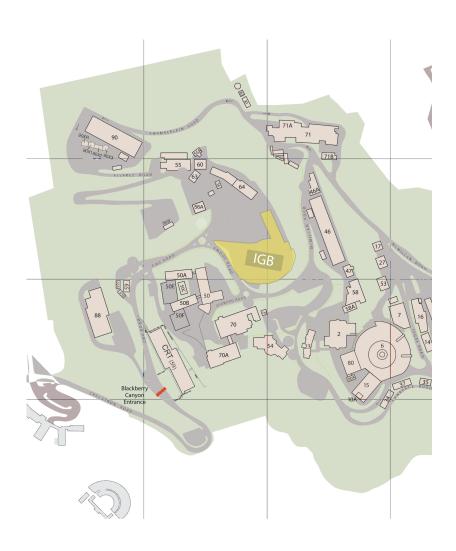




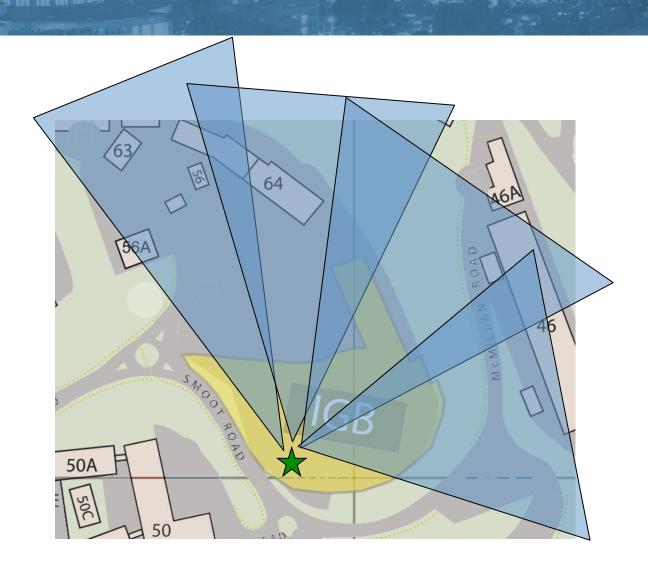
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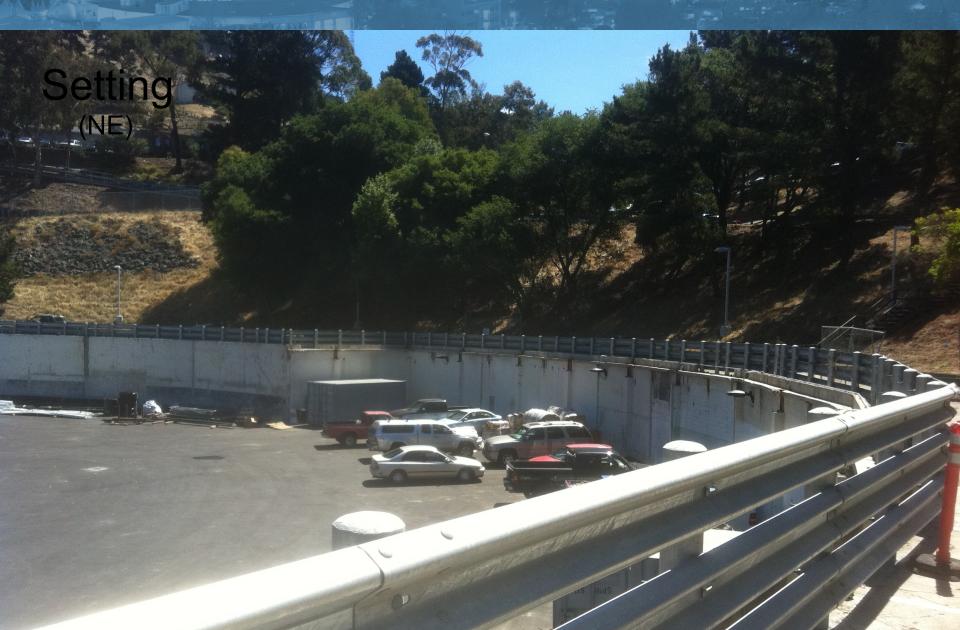














## **Project Description**

- Existing Programs
- Low Emissions
- Reduce Parking
- Remediation

- Alternative Footprints
- Parcel Lease Modification
- Modular Utility Plant



## **Project Description**

Includes full program of Standard Project Features (SPFs) implemented through Long Range Development Plan process.

Subject to Transportation Demand Management policies and other forthcoming green and sustainability policies.



## Impact Analysis

Hazards & Hazardous Materials

Transportation

Hydrology & Water Quality



## Impact Analysis

Construction

Operations



## Hazards and Hazardous Materials



## Hazards and Hazardous Materials

- Emissions of:
  - Laboratory Chemicals
  - Construction Exhaust and PM
  - Boiler and Generator Exhaust
  - Vehicle Exhaust
- Laboratory Chemical Use and Waste Disposal
- VOCs in Soil

Human Health Risk Assessments / Risk Analyses, SPFs

Applicable Laws, Requirements, SPFs



## Hazards and Hazardous Materials

#### **VOCs in Soil**

- Volatile Organic Compound Contamination in Vicinity of IGB Site
- Contamination Areas Regulated by DTSC
- Conducted Risk Assessment to IGB Occupants
- No Areas Exceed DTSC Thresholds
- Submitted to DTSC on February 19





## Transportation

#### **Construction Trucks**

- Managed by Site Construction Coordinator
- Aggregate Limits for All LBNL Truck Trips
- < 48 Round Trips / Day</li>
- < 4 Round Trips or 8 One-Way Trips / Hour</li>
- Approved Truck Routes



## **Transportation**

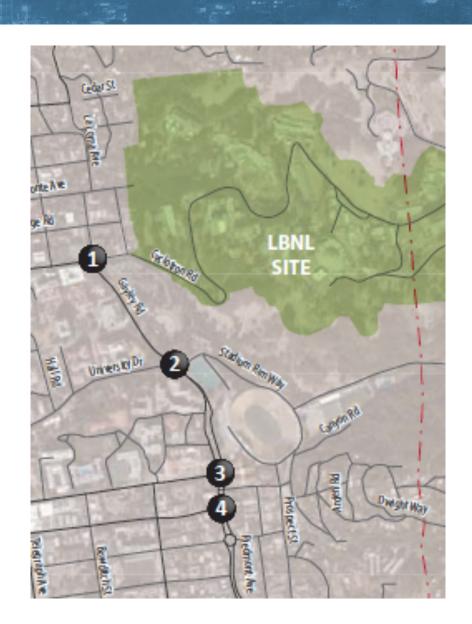
## **Operational Trips**

#### **Vehicle Trip Generation Summary**

	Average		AM Peak Hour			PM Peak Hour		
	Daily Population	Daily	In	Out	Total	In	Out	Total
Existing LBNL <sup>1</sup>	4,200	6,640	581	93	674	85	551	636
IGB Project <sup>2</sup>	333	530	46	7	53	6	44	50



- Hearst / Gayley / La Loma
- Stadium Rim Way / Gayley
- 3. Bancroft / Piedmont
- 4. Durant / Piedmont





- 1. Hearst / Gayley / La Loma
- Stadium Rim Way / Gayley
- 3. Bancroft / Piedmont
- 4. Durant / Piedmont





- Hearst / Gayley / La Loma
- 2. Stadium Rim Way / Gayley
- 3. Bancroft / Piedmont
- 4. Durant / Piedmont



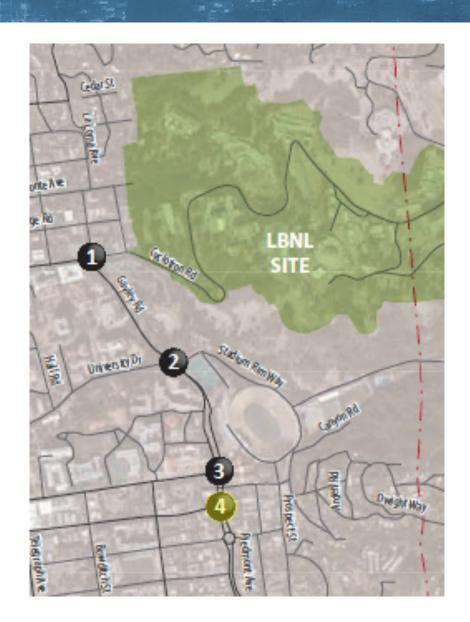


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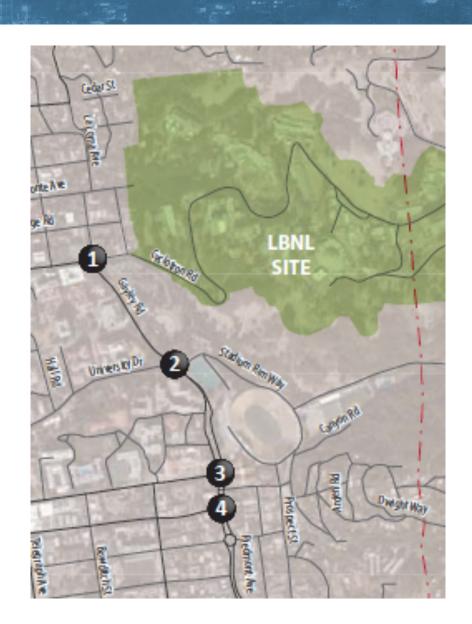


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## Transportation

#### Near-Term (2019) Project Conditions – Study Intersection LOS Summary

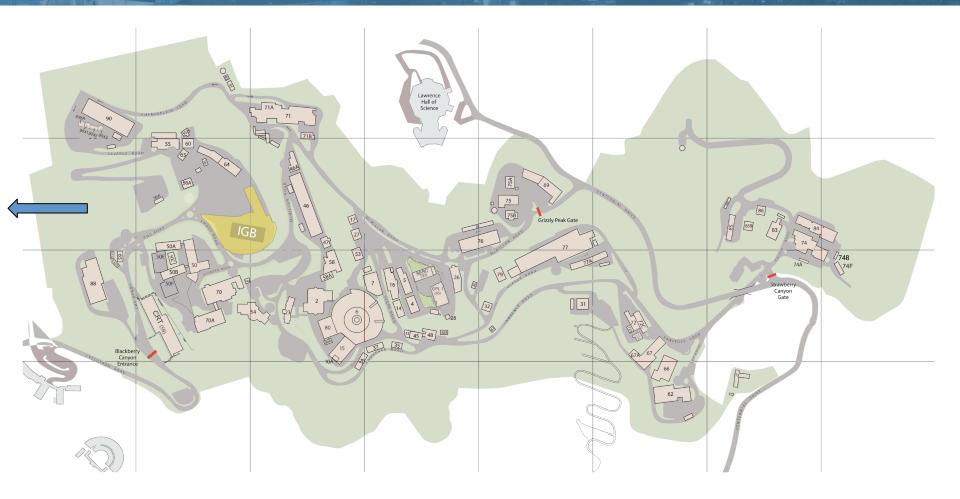
			Near Term (2019) No Project		Near Term (2019) Plus Project	
Intersection	Traffic Control	Peak Hour	Delay (sec/vehicle)	LOS	Delay (sec/vehicle)	LOS
intersection	Control					
1. Hearst Avenue/Gayley	Signal	AM	14.2	В	14.5	В
Road/La Loma Avenue		PM	16.0	В	16.3	В
2. Stadium Rim Way/Gayley	All-Way Stop	AM	24.7	С	25.6	D
Road		PM	24.6	С	26.4	D
3. Bancroft Way/Piedmont	All-Way Stop	AM	36.2	E	36.2	Е
Avenue <sup>1</sup>		PM	96.1	F	104.2	F
4. Durant Avenue/Piedmont	All-Way Stop	AM	62.0	F	63.1	F
Avenue <sup>1</sup>		PM	93.2	F	99.0	F



## Hydrology & Water Quality

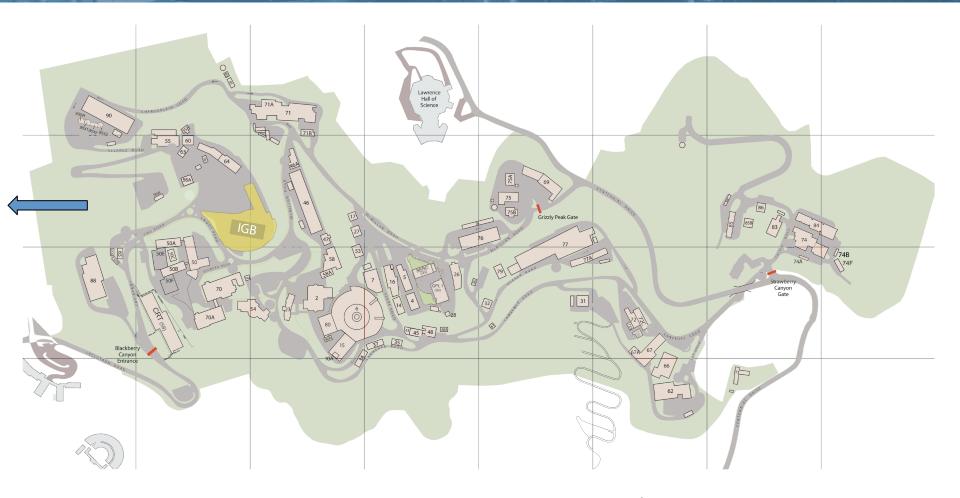
(Creeks)















## Hydrology and Water Quality

#### Construction

- National Pollution Discharge Elimination System (NPDES) Permit
- Storm Water Pollution Prevention Plan (SWPPP)
- Storm Water Monitoring Plan (SWMP)

#### Minimize Sediment and Contaminants

- Multiple Source Controls
- Storm Drain Maintenance
- Management Controls
- Treatment Controls
- Sampling



## Hydrology and Water Quality

#### **Operations**

- No Increase to Impervious Surface
- Implement EISA 438
  - -Restore Runoff to Pre-Development Conditions
  - -May Include Retention Basin
- Discharge into Existing Storm Drains















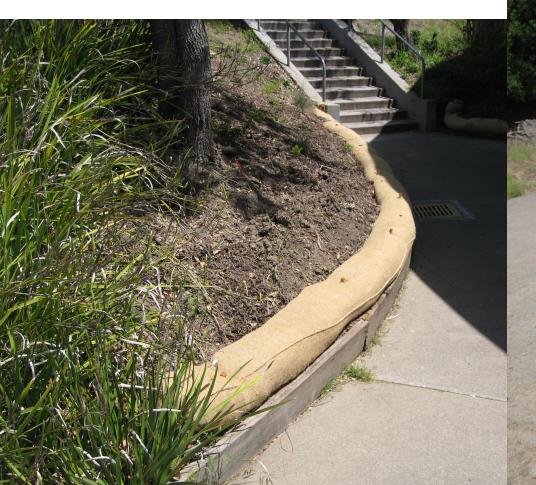








Hydrology and Water Qu











## **CEQA Process**



## **CEQA Process**

- Public Comment Period Extends Through March 24
- Please Provide Comments as Indicated
- Regents Meeting: May 2015