

**Department of Public Works
Engineering Division**

September 30, 2022

Michael Montgomery, Executive Officer
Regional Water Quality Control Board, San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: NPDES Permit No. CAS612008; Order R2-2015-0049
Annual Report of Stormwater Program Implementation Fiscal Year 2021-22

Dear Mr. Montgomery:

Enclosed for your review is the City of Berkeley's Annual Report of Stormwater Program Implementation for Fiscal Year 2021-22, as required by the Municipal Regional Stormwater NPDES Permit for the Alameda Countywide Clean Water Program. The City is in compliance with requirements of the Order.

The 2020 COVID-19 health pandemic emergency continues to impact the City's daily operations causing certain requirement compliance delays. The specific delays, the reasons for the delays, and the tasks where possible that were and are necessary to achieve full compliance, and the estimated dates for full compliance are further explained in the relevant sections of this Report.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and properly evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those people directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and as complete as possible. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

If you have any questions, please contact Mary Ellen Skramstad, Environmental Compliance Specialist, at miskramstad@cityofberkeley.info or 510-981-6337.

Sincerely,

Joe Enke, P.E.
City Engineer

Enclosure: Annual Report of Stormwater Program Implementation Fiscal Year 2021-22

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Section 1 – Permittee Information

Background Information			
Permittee Name:	City of Berkeley		
Population:	112,580		
NPDES Permit No.:	CAS612008		
Order Number:	R2-2015-0049		
Reporting Time Period (month/year):	July 2021 through June 2022		
Name of the Responsible Authority:	Liam Garland	Title:	Director of Public Works
Mailing Address:	2180 Milvia Street, 3 rd Floor		
City:	Berkeley	Zip Code:	94704
		County:	Alameda
Telephone Number:	510-981-6303	Fax Number:	510-981-6320
E-mail Address:	LGarland@cityofberkeley.info		
Name of the Designated Stormwater Management Program Contact (if different from above):	Mary Skramstad	Title:	Environmental Compliance Specialist
Department:	Public Works		
Mailing Address:	1947 Center Street, 4 th Floor		
City:	Berkeley	Zip Code:	94704
		County:	Alameda
Telephone Number:	510-981-6337	Fax Number:	510-981-7060
E-mail Address:	mskramstad@cityofberkeley.info		

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary: Participation in the countywide program's Municipal Operations Committee. Refer to the C.2 Municipal Operations section of the countywide Program's FY 21-22 Annual Report for a description of activities implemented at the countywide and/or regional level.

C.2.a. ► Street and Road Repair and Maintenance

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
Y	Control of concrete slurry and wastewater, asphalt, pavement cutting, and other street and road maintenance materials and wastewater from discharging to storm drains from work sites.
Y	Sweeping and/or vacuuming and other dry methods to remove debris, concrete, or sediment residues from work sites upon completion of work.

Comments: None.

C.2.b. ► Sidewalk/Plaza Maintenance and Pavement Washing

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of wash water from pavement washing, mobile cleaning, pressure wash operations at parking lots, garages, trash areas, gas station fueling areas, and sidewalk and plaza cleaning activities from polluting stormwater
Y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments: None.

C.2.c. ► Bridge and Structure Maintenance and Graffiti Removal

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

Y	Control of discharges from bridge and structural maintenance activities directly over water or into storm drains
Y	Control of discharges from graffiti removal activities
Y	Proper disposal for wastes generated from bridge and structure maintenance and graffiti removal activities
Y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs for graffiti removal
Y	Employee training on proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.
Y	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.

Comments: None.

C.2.e. ► Rural Public Works Construction and Maintenance			
Does your municipality own/maintain rural ¹ roads:		<input type="checkbox"/>	Yes
		<input checked="" type="checkbox"/>	No
If your answer is No then skip to C.2.f.			
Place a Y in the boxes next to activities where applicable BMPs were implemented. If not applicable, type NA in the box and provide an explanation in the comments section below. Place an N in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.			
<input type="checkbox"/>	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas		
<input type="checkbox"/>	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources		
<input type="checkbox"/>	No impact to creek functions including migratory fish passage during construction of roads and culverts		
<input type="checkbox"/>	Inspection of rural roads for structural integrity and prevention of impact on water quality		
<input type="checkbox"/>	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion		
<input type="checkbox"/>	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate		
<input type="checkbox"/>	Inclusion of measures to reduce erosion, provide fish passage, and maintain natural stream geomorphology when replacing culverts or design of new culverts or bridge crossings		
Comments including listing increased maintenance in priority areas: N/A.			

¹Rural means any watershed or portion thereof that is developed with large lot home-sites, such as one acre or larger, or with primarily agricultural, grazing or open space uses.

C.2.f. ► Corporation Yard BMP Implementation				
Place an X in the boxes below that apply to your corporations yard(s):				
<input type="checkbox"/>	We do not have a corporation yard			
<input type="checkbox"/>	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit			
<input checked="" type="checkbox"/>	We have a Stormwater Pollution Prevention Plan (SWPPP) for the Corporation Yard(s)			
Place an X in the boxes below next to implemented SWPPP BMPs to indicate that these BMPs were implemented in applicable instances. If not applicable, type NA in the box. If one or more of the BMPs were not adequately implemented during the reporting fiscal year then indicate so and explain in the comments section below:				
<input checked="" type="checkbox"/>	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment			
<input checked="" type="checkbox"/>	Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system			
<input checked="" type="checkbox"/>	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method			
<input checked="" type="checkbox"/>	Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used			
<input checked="" type="checkbox"/>	Cover and/or berm outdoor storage areas containing waste pollutants			
Comments: None.				
If you have a corporation yard(s) that is not an NOI facility, complete the following table for inspection results for your corporation yard(s) or attach a summary including the following information:				
Corporation Yard Name	Corp Yard Activities w/ site-specific SWPPP BMPs	Inspection Date ²	Inspection Findings/Results	Date and Description of Follow-up and/or Corrective Actions
City of Berkeley Corporation Yard	Storage containers	9/24/2021	Scrap metal containers and tire container do not have lids. Dumpsters are closed. Areas are covered from rain.	Tarped during rain events.
City of Berkeley Corporation Yard	Storage areas	9/24/2021	Scrap metal is identified around the area. Some debris present.	Was cleaned up within 7 days.
City of Berkeley Corporation Yard	Hazardous waste storage area	9/24/2021	Many containers opened and not labeled.	Corrected on 9/25/2021.

² Minimum inspection frequency is once a year during September.

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Permittee Name: City of Berkeley

C.2 – Municipal Operations

Corporation Yard Name	Corp Yard Activities w/ site-specific SWPPP BMPs	Inspection Date³	Inspection Findings/Results	Date and Description of Follow-up and/or Corrective Actions
City of Berkeley Corporation Yard	Material processing or handling areas	9/24/2021	Covered from rain.	
City of Berkeley Corporation Yard	Parking areas	9/24/2021	Free of debris, excessive oil or fluids, no staining. Dry cleaning methods (e.g. hand sweeping) are employed here.	
City of Berkeley Corporation Yard	Vehicle repair and maintenance	9/24/2021	Covered and out of rain (work occurs inside a large garage). Dry cleaning methods (e.g. hand sweeping) are employed here.	
City of Berkeley Corporation Yard	Equipment storage	9/24/2021	Some trucks were observed to be dirty, but this is expected.	
City of Berkeley Corporation Yard	Fueling	9/24/2021	Fueling and cleaning areas are free of spills and leaks.	
City of Berkeley Corporation Yard	Catch basins	9/24/2021	Spills in fueling and vehicle/equipment maintenance areas are prevented from entering storm drain. Minor spills and stains may occur, but no discharge into storm drains. Recommend putting wattles around storm drains.	
City of Berkeley Corporation Yard	Storm filter vault	9/24/2021	Storm drain inlets and catch basins at the Corp Yard are inspected and mechanically cleaned on a quarterly schedule. Last date of service was 6/21/2021.	
City of Berkeley Marina Yard	Storage containers	9/27/2021	Some trash containers need lids and additional/clarified labeling.	Corrected on 9/28/2021.
City of Berkeley Marina Yard	Storage areas	9/27/2021	Areas covered from rain. General area needs hand sweeping for debris.	
City of Berkeley Marina Yard	Hazardous waste storage area	9/27/2021	Stored safely and also bermed.	
City of Berkeley Marina Yard	Material processing or handling areas	9/27/2021	Drums covered and labeled, with spill supplies readily available. Improved signage for Spill Kit recommended.	

³ Minimum inspection frequency is once a year during September.

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Permittee Name: City of Berkeley

C.2 – Municipal Operations

Corporation Yard Name	Corp Yard Activities w/ site-specific SWPPP BMPs	Inspection Date⁴	Inspection Findings/Results	Date and Description of Follow-up and/or Corrective Actions
City of Berkeley Marina Yard	Parking areas	9/27/2021	Parking and access areas are free of excessive oil and fluids, staining, and other debris.	
City of Berkeley Marina Yard	Vehicle repair and maintenance	9/27/2021	N/A – these activities do not occur at the Marina Corp Yard.	
City of Berkeley Marina Yard	Equipment storage	9/27/2021	N/A – these activities do not occur at the Marina Corp Yard.	
City of Berkeley Marina Yard	Fueling	9/27/2021	N/A – these activities do not occur at the Marina Corp Yard.	
City of Berkeley Marina Yard	Catch basins	9/27/2021	Both catch basins need to be serviced, will add to Oldcastle’s schedule for maintenance. Last date of service was May 2021. “Drains to Bay” medallions need to be replaced (missing).	Serviced 10/22/2021
City of Berkeley Marina Yard	Storm filter vault	9/27/2021	N/A.	

⁴ Minimum inspection frequency is once a year during September.

Section 3 - Provision C.3 Reporting New Development and Redevelopment

C.3.e.iv. ► Alternative or In-Lieu Compliance with Provision C.3.c.

Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
Comments (optional):				

C.3.e.v ► Special Projects Reporting

1. In FY 2021-22, has your agency received, but not yet granted final discretionary approval of, a development permit application for a project that has been identified as a potential Special Project based on criteria listed in MRP Provision C.3.e.ii(2) for any of the three categories of Special Projects (Categories A, B or C)?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
2. In FY 2021-22, has your agency granted final discretionary approval to a Special Project? If yes, include the project in both the C.3.b.iv.(2) Table, and the C.3.e.v. Table.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If you answered "Yes" to either question, 1) Complete Table C.3.e.v. 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project. See Appendix A – Narrative Discussions				

C.3.h.v.(3)(a) –(c) and (f) ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Site Inspections Data	Number/Percentage
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the previous fiscal year (FY 20-21)	51
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the reporting period (FY 21-22)	54
Total number of Regulated Projects (including offsite projects, and Regional Projects) for which O&M verification inspections were conducted during the reporting period (FY 21-22)	4

Percentage of the total number of Regulated Projects (including offsite projects, and Regional Projects) inspected during the reporting period (FY 21-22)	7.8% ¹
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C.3.h.v.(3)(d)-(e) ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Provide a discussion of the inspection findings for the year and any common problems encountered with various types of treatment systems and/or HM controls. This discussion should include a general comparison to the inspection findings from the previous year.

Summary:
 During FY 21-21, six (6) regulated projects with stormwater treatment systems were due for inspection. Four (4) of the six (6) were inspected in FY 21-22 to verify proper operation and maintenance. Due to staffing changes, the remaining two (2) were inspected in September, 2022. Of these inspections, most required some follow-up maintenance correction. Typical problems included poor vegetation cover and/or invasive weeds or vegetation. These results are similar to previous years.

Provide a discussion of the effectiveness of the O&M Program and any proposed changes to improve the O&M Program (e.g., changes in prioritization plan or frequency of O&M inspections, other changes to improve effectiveness program).

Summary:
 The City of Berkeley’s O&M verification inspection program for installed stormwater treatment systems has proven to be effective at identifying problems early on and keeping stormwater treatment systems at regulated projects in good working order. The City has implemented the Enforcement Response Plan (ERP) for O&M inspections of stormwater facilities to ensure that inspection staff take consistent enforcement actions to maintain compliance. No changes to the O&M inspection program are proposed for FY 21-22.

C.3.i. ► Required Site Design Measures for Small Projects and Detached Single Family Home Projects

On an annual basis, discuss the implementation of the requirements of Provision C.3.i, including ordinance revisions, permit conditions, development of standard specifications and/or guidance materials, and staff training.

Summary:
 BASMAA prepared standard specifications in four fact sheets regarding the site design measures listed in Provision C.3.i, as a resource for Permittees. We have modified local ordinances/policies/procedures and forms/checklists to require all applicable projects approved after December 1, 2012 to implement at least one of the site design measures listed in Provision C.3.i. We are using the following Program and BASMAA products for C.3.i implementation:

- BASMAA’s site design fact sheets
- ACCWP C.3 Technical Guidance Manual Appendix L

¹ Based on the number of Regulated Projects in the database or tabular format at the end of the previous fiscal year, per MRP Provision C.3.h.ii.(6)(b).

C.3.j.i.(5)(d) ► Green Infrastructure Outreach

On an annual basis, provide a summary of your agency's outreach and education efforts pertaining to Green Infrastructure planning and implementation.

Summary:

Locally, the City of Berkeley has conducted the following outreach and education activities pertaining to Green Infrastructure planning and implementation:

- Public Works Commission Meeting – March 3, 2022

Please refer to the Countywide Program's FY 21-22 Annual Report for a summary of outreach efforts implemented at the Countywide level.

C.3.j.ii.(2) ► Early Implementation of Green Infrastructure Projects

On an annual basis, submit a list of green infrastructure projects, public and private, that are already planned for implementation during the permit term and infrastructure projects planned for implementation during the permit term that have potential for green infrastructure measures. Include the following information:

- A summary of planning or implementation status for each public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. (see C.3.j.ii.(2) Table B - Planned Green Infrastructure Projects).
- A summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. For any public infrastructure project where implementation of green infrastructure measures is not practicable, submit a brief description of the project and the reasons green infrastructure measures were impracticable to implement (see C.3.j.ii.(2) Table A - Public Projects Reviewed for Green Infrastructure).

Background Information:

Describe how this provision is being implemented by your agency, including the process used by your agency to identify projects with potential for green infrastructure, if applicable.

The City of Berkeley refers to the Guidance for Identifying Green Infrastructure Potential in Municipal Capital Improvement Program Projects developed by BASMAA when identifying and reviewing public projects for green infrastructure potential.

Summary of Planning or Implementation Status of Identified Projects:

See attached Tables C.3.j.ii.(2)-A and C.3.j.ii.(2)-B for the required information.

C.3.j.iii.(2) and (3) ▶ Participate in Processes to Promote Green Infrastructure

On an annual basis, report on the goals and outcomes during the reporting year of work undertaken to participate in processes to promote green infrastructure.

Please refer to Countywide Program's FY 21-22 Annual Report for a summary of efforts conducted to help regional, State, and federal agencies plan, design and fund incorporation of green infrastructure measures into local infrastructure projects, including transportation projects.

C.3.j.iv.(2) and (3) ▶ Tracking and Reporting Progress

On an annual basis, report progress on development and implementation of methods to track and report implementation of green infrastructure measures and provide reasonable assurance that wasteload allocations for TMDLs are being met.

Please refer to the Countywide Program's FY 21-22 Annual Report for a summary of methods being developed to track and report implementation of green infrastructure measures.

C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 1) – Projects Approved During the Fiscal Year Reporting Period

Project Name Project No.	Project Location ² , Street Address	Name of Developer	Project Phase No. ³	Project Type & Description ⁴	Project Watershed ⁵	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft ²) ⁶	Total Replaced Impervious Surface Area (ft ²) ⁷	Total Pre- Project Impervious Surface Area ⁸ (ft ²)	Total Post- Project Impervious Surface Area ⁹ (ft ²)
Private Projects											
2001 Ashby	2001 Ashby Ave. @ Adeline St.	Resources For Community Development	NA	Redevelopment: 6-story building with residential and commercial uses	Potter	0.6	0.6	0	18,752	20,878	18,752
2015 Blake Street	2015 Blake St. @ Milvia St.	Laconia Development LLC	NA	Redevelopment: 3 and 7-story residential buildings	Potter	0.96	0.96	6,136	22,252	41,011	28,388
921 Parker Street Parking Lot	2520 Eighth St. @ Dwight Way	Bayer Healthcare, LLC	NA	Redevelopment: Convert temporary play area back to parking stalls	Potter	0.30	0.29	6,250	5,040	5,040	11,290
2099 MLK Housing	2099 Martin Luther King Jr. Way @ Addison St.	2099 Martin Luther King Jr. Way, LLC	NA	Redevelopment: 7-story mixed use building	Strawberry	0.28	0.28	7,709	3,595	12,363	11,304
BOYP	1207 Tenth St. @ Harrison St.	Jonathan Bacharach	NA	Redevelopment: 3-story mixed use building	Gilman	0.29	0.29	0	12,050	12,121	12,050
Public Projects											
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments: N/A											

²Include cross streets

³If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".

⁴Project Type is the type of development (i.e., new and/or redevelopment). Example descriptions of development are: 5-story office building, residential with 160 single-family homes with five 4-story buildings to contain 200 condominiums, 100 unit 2-story shopping mall, mixed use retail and residential development (apartments), industrial warehouse.

⁵State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.

⁶All impervious surfaces added to any area of the site that was previously existing pervious surface.

⁷All impervious surfaces added to any area of the site that was previously existing impervious surface.

⁸For redevelopment projects, state the pre-project impervious surface area.

⁹For redevelopment projects, state the post-project impervious surface area.

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (private projects)**

Project Name Project No.	Application Deemed Complete Date ¹⁰	Application Final Approval Date ¹¹	Source Control Measures ¹²	Site Design Measures ¹³	Treatment Systems Approved ¹⁴	Type of Operation & Maintenance Responsibility Mechanism ¹⁵	Hydraulic Sizing Criteria ¹⁶	Alternative Compliance Measures ^{17/18}	Alternative Certification ¹⁹	HM Controls ^{20/21}
Private Projects										
2001 Ashby	February 4, 2022	February 4, 2022	Storm drain stenciling, properly designed trash storage areas	Construct walkways with permeable surfaces	Bioretention Facility	O&M agreement with private landowner	3	No alternative compliance measures implemented	Third party was not used to certify project design complies with Provision C.3.d	Not required. The project creates and/or replaces less than 1 acre of impervious surface.
2015 Blake Street	November 13, 2020	October 20, 2021	Storm drain stenciling, Efficient landscape irrigation system	Direct walkway runoff onto vegetated areas	Flow-Through Planter, Media Filter	O&M agreement with private landowner	2.c.	No alternative compliance measures implemented	Third party was not used to certify project design complies with Provision C.3.d	Not required. The project creates and/or replaces less than 1 acre of impervious surface.

¹⁰For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.

¹¹For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.

¹²List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

¹³List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

¹⁴List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

¹⁵List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc...) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

¹⁶See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

¹⁷For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.iv.(2)(m)(i) for the offsite project.

¹⁸For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.iv.(2)(m)(ii) for the Regional Project.

¹⁹Note whether a third party was used to certify the project design complies with Provision C.3.d.

²⁰If HM control is not required, state why not.

²¹If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (private projects)**

Project Name Project No.	Application Deemed Complete Date ¹⁰	Application Final Approval Date ¹¹	Source Control Measures ¹²	Site Design Measures ¹³	Treatment Systems Approved ¹⁴	Type of Operation & Maintenance Responsibility Mechanism ¹⁵	Hydrau- lic Sizing Criteria ¹⁶	Alternative Compliance Measures ^{17/18}	Alternative Certification ¹⁹	HM Controls ^{20/21}
921 Parker Street Parking Lot	December 1, 2021	December 1, 2021	Storm drain stenciling, Efficient landscape irrigation system	Direct runoff from uncovered parking lot to vegetated areas	Bioretention Facility	O&M agreement with private landowner	2.c.	No alternative compliance measures implemented	Third party was not used to certify project design complies with Provision C.3.d	Not required. The project creates and/or replaces less than 1 acre of impervious surface.
2099 MLK Housing	June 1, 2019	July 17, 2020	Storm drain stenciling, properly designed trash storage areas	Direct roof runoff onto vegetated areas	Flow-Through Planter, Media Filter	O&M agreement with private landowner	2.c.	No alternative compliance measures implemented	Third party was not used to certify project design complies with Provision C.3.d	Not required. The project creates and/or replaces less than 1 acre of impervious surface.
BOYP	June 23, 2021	September 27, 2021	Properly designed trash storage areas	Construct walkways with permeable surfaces	Flow-Through Planter	O&M agreement with private landowner	2.c.	No alternative compliance measures implemented	Third party was not used to certify project design complies with Provision C.3.d	Not required. The project creates and/or replaces less than 1 acre of impervious surface.

**C.3.b.iv.(2) ► Regulated Projects Reporting Table (part 2) –
 Projects Approved During the Fiscal Year Reporting Period
 (public projects)**

Project Name Project No.	Approval Date ²²	Date Construction Scheduled to Begin	Source Control Measures ²³	Site Design Measures ²⁴	Treatment Systems Approved ²⁵	Operation & Maintenance Responsibility Mechanism ²⁶	Hydraulic Sizing Criteria ²⁷	Alternative Compliance Measures ^{28/29}	Alternative Certification ³⁰	HM Controls ^{31/32}
Public Projects										
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments: None										

²²For public projects, enter the plans and specifications approval date.

²³List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

²⁴List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

²⁵List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

²⁶List the legal mechanism(s) (e.g., maintenance plan for O&M by public entity, etc.) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

²⁷See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

²⁸For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.iv.(2)(m)(i) for the offsite project.

²⁹For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.iv.(2)(m)(ii) for the Regional Project.

³⁰Note whether a third party was used to certify the project design complies with Provision C.3.d.

³¹If HM control is not required, state why not.

³²If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

C.3.h.v.(2). ► Table of Newly Installed³³ Stormwater Treatment Systems and Hydromodification Management (HM) Controls (Optional)

Fill in table below or attach your own table including the same information.

Name of Facility	Address of Facility	Party Responsible ³⁴ For Maintenance	Type of Treatment/HM Control(s)
1601 Oxford Street	1601 Oxford Street	Property Owner	Flow-Through Planter
Residence Inn Berkeley	2121 Center Street	Property Owner	Flow-Through Planter
Spirit Living	2100 San Pablo Ave.	Property Owner	Flow-Through Planter

³³ "Newly Installed" includes those facilities for which the final installation inspection was performed during this reporting year.

³⁴ State the responsible operator for installed stormwater treatment systems and HM controls.

C.3.e.v.Special Projects Reporting Table												
Reporting Period – July 1 2021 - June 30, 2022												
Project Name & No.	Permittee	Address	Application Submittal Date ³⁵	Status ³⁶	Description ³⁷	Site Total Acreage	Gross Density DU/Acre	Density FAR	Special Project Category ³⁸	LID Treatment Reduction Credit Available ³⁹	List of LID Stormwater Treatment Systems ⁴⁰	List of Non-LID Stormwater Treatment Systems ⁴¹
2015 Blake Street	Berkeley	2015 Blake St.	July 10, 2020	Granted Plan version October 20, 2021	3 and 7-story residential buildings	0.96	181	3.5	Category A: n/a Category B: n/a Category C: Location: within ½ miles of transit hub Density: dwelling unit per acre greater than 100 Parking: Less than 10% at-grade surface parking	Category C: 65% Location: 25% Density: 30% Parking: 10%	Flow-Through Planter 35%	Media filter treats 65% of C.3.d runoff. Washington State Technical Assistance Protocol – Ecology (TAPE) program granted General Use Level Designation (GULD) certification
2099 MLK Housing	Berkeley	2099 Martin Luther King Jr. Way	May 2, 2019	Granted Plan version September 1, 2021	7-story mixed use building	0.28	257	6.0	Category A: qualifies Category B: n/a Category C: n/a	Category A: 100%	Flow-Through Planter 62%	Media filter treats 38% of C.3.d runoff. Washington State Technical Assistance Protocol – Ecology (TAPE) program granted General Use Level Designation (GULD) certification

³⁵Date that a planning application for the Special Project was submitted.

³⁶ Indicate whether final discretionary approval is still pending or has been granted, and provide the date or version of the project plans upon which reporting is based.

³⁷Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

³⁸ For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

³⁹For each applicable Special Project Category, state the maximum total LID Treatment Reduction Credit available. For Category C Special Projects also list the individual Location, Density, and Minimized Surface Parking Credits available.

⁴⁰: List all LID stormwater treatment systems proposed. For each type, indicate the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area.

⁴¹List all non-LID stormwater treatment systems proposed. For each type of non-LID treatment system, indicate: (1) the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area, and (2) whether the treatment system either meets minimum design criteria published by a government agency or received certification issued by a government agency, and reference the applicable criteria or certification.

FY 2021 - 2022 Annual Report
Permittee Name: City of Berkeley

C.3 – New Development and Redevelopment

Special Projects Narrative - Appendix A

C.3.j.ii.(2) ► Table A - Public Projects Reviewed for Green Infrastructure				
Project Name and Location⁴²	Project Description	Status⁴³	GI Included?⁴⁴	Description of GI Measures Considered and/or Proposed or Why GI is Impracticable to Implement⁴⁵
Hopkins Street Corridor Project	Street improvements addressing pedestrian and bicyclist safety on Hopkins Street between Sutter and Gilman Streets.	Project in design phase.	Yes	TBD
Telegraph Avenue Streetscape Improvements	Streetscape and pedestrian safety improvements	Conceptual design approved.	TBD	TBD
Southside Complete Streets	Addressing modes of transportation on the south side of the UC Berkeley main campus	Project in design phase. Construction expected to begin in spring of 2023.	TBD	TBD
South Adeline Transportation Improvements	Multimodal improvements on Adeline from MLK to southern City limits.	Consultant selection phase.	TBD	TBD
Sacramento Street Pedestrian Safety	Pedestrian crossing improvements at various intersections across Sacramento Street. Pavement resurfacing from Oregon to Fairview Streets.	Early design phase. Construction estimated in FY2024.	TBD	TBD
Ohlone Greenway Modernization and Safety	Widen and repave portion of Ohlone Greenway pathway from Albany border to Virginia Gardens.	Conceptual design phase. Construction estimated in FY2024.	TBD	TBD

⁴² List each public project that is going through your agency's process for identifying projects with green infrastructure potential.

⁴³ Indicate status of project, such as: beginning design, under design (or X% design), projected completion date, completed final design date, etc.

⁴⁴ Enter "Yes" if project will include GI measures, "No" if GI measures are impracticable to implement, or "TBD" if this has not yet been determined.

⁴⁵ Provide a summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. If review of the project indicates that implementation of green infrastructure measures is not practicable, provide the reasons why green infrastructure measures are impracticable to implement.

Project Name and Location ⁴⁶	Project Description	Status ⁴⁷	GI Included? ⁴⁸	Description of GI Measures Considered and/or Proposed or Why GI is Impracticable to Implement ⁴⁹
Ohlone Park (East) – Park improvements, Hearst Ave. from Milvia St. to Bonita Ave., and from MLK, Jr. Way to Sacramento St., Berkeley	Playground renovation on Hearst Avenue between Bonita St. and Milvia St.	In Design	TBD	TBD
San Pablo Park – Frances Albrier Community Center Renovation, 2800 Park between Russell St. and Ward St., Berkeley	Renovate or replace existing community center	Not funded for design or construction at this time	TBD	TBD
Civic Center Park – Upper Plaza Improvements	Renovate existing defunct fountain into a landscaped planter.	In Planning	TBD	TBD
Santa Fe Railroad Trackbed to Park Conversion Project	Create new park along former Santa Fe Railroad parcels from Ward Street to Blake Street.	In Planning	TBD	TBD
Willard Clubhouse Replacement Project	Renovate or replace existing Community Clubhouse	In Planning	TBD	TBD
MLK Jr. Community Center Renovation Project	Renovate existing Community Center and Seismic Improvement Project	In Planning	TBD	TBD
Berkeley Marina – South Cove East Lot	Regrading and repaving on existing parking lot	Still in conceptual planning stages	TBD	TBD
Aquatic Park Parking Lot	Existing parking lot improvements	Still in conceptual planning stages	TBD	TBD

⁴⁶ List each public project that is going through your agency's process for identifying projects with green infrastructure potential.

⁴⁷ Indicate status of project, such as: beginning design, under design (or X% design), projected completion date, completed final design date, etc.

⁴⁸ Enter "Yes" if project will include GI measures, "No" if GI measures are impracticable to implement, or "TBD" if this has not yet been determined.

⁴⁹ Provide a summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. If review of the project indicates that implementation of green infrastructure measures is not practicable, provide the reasons why green infrastructure measures are impracticable to implement.

C.3.j.ii.(2) ► Table B - Planned and/or Completed Green Infrastructure Projects

Project Name and Location ⁵⁰	Project Description	Planning or Implementation Status	Green Infrastructure Measures Included
Milvia Bikeway	Protected bike lanes, striping, intersection treatments and traffic calming features on Milvia Street between Hearst Ave and Blake Street.	Construction complete Spring 2022.	Flow-through planters
University Avenue Lane Reconfiguration	Lane reconfiguration to more efficiently route traffic and promote pedestrian and bicyclist access and safety.	Construction completed in Spring 2022	Project includes bioretention areas
Channing Way, between Milvia St. and MLK, Jr. Way, Berkeley	Pervious concrete parking lane	Pervious concrete panels installed December 2021	Pervious concrete panels
Spinnaker Way Improvement Project, Spinnaker Way, Berkeley Marina	General improvements to and resurfacing of Spinnaker Way adjacent to the Berkeley Marina and Cesar Chavez Park	Construction completed March 9, 2022	Permeable parking lanes on both sides and a bioswale at the west end of Spinnaker Way

⁵⁰ List each planned (and expected to be funded) public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. Note that funding for green infrastructure components may be anticipated but is not guaranteed to be available or sufficient.

Section 4 – Provision C.4 Industrial and Commercial Site Controls

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

Refer to the C.4 Industrial and Commercial Site Controls section of the countywide program's FY 21-22 Annual Report for a description of activities of the countywide program and the BASMAA Municipal Operations Committee. City of Berkeley staff attended Industrial and Illicit Discharge Control (I&IDC) Subcommittee meetings in FY 21-22.

In FY 21-22, Industrial and Commercial facility inspections were performed by the Toxics Management Division (TMD) of the Planning Department and the Environmental Health Division (EH) of the Department of Health, Housing, and Community Development. EH conducted inspections of Berkeley's Food Service and Restaurant businesses, including mobile food services. TMD inspected primarily industrial and commercial businesses that handled threshold (Berkeley Municipal Code Title 15) amounts of hazardous materials. TMD conducted 101 inspections at regulated industrial/commercial facilities in FY 21-22. TMD maintained an inventory of 336 Industrial businesses in the I&IDC inspection program that could reasonably be considered to impact stormwater pollution.

In FY 22-23, EH maintained an inventory of 813 food service and restaurant businesses, of which 40 are mobile food vendors. EH conducted three (3) inspections at food service and restaurant businesses in response to community complaints. Of those three (3) facilities, one facility was closed for at least three (3) days until proper repairs could be made to prevent further illicit discharges. One of the other inspections required the City to use a "Vac-Truck" to remove grease-laden effluent from two (2) nearby storm drains. All violations were resolved in a timely manner.

The number of food service inspections related to stormwater are low as a result of city-wide staffing shortages. EH currently has two (2) vacant positions, one who's primary function is to conduct routine stormwater inspections at fixed and mobile food service facilities, while the other position is a supervisory position with stormwater/illicit discharge program oversight. EH intends to backfill at least one of the vacant positions in FY22- 23, which should result in an increase in routine stormwater inspections for FY22-23.

TMD's commercial/industrial facility inspections identified 14 potential discharge violations. EH's inspections of Food Service businesses identified two (2) actual discharge violations and one (1) potential discharge violations.

Refer to the C.4. Industrial and Commercial Site Controls section of the countywide Program's FY 21-22 Annual Report for a description of activities implemented at the countywide and/or regional level.

C.4.b.iii ► Potential Facilities List (i.e., List of All Facilities Requiring Stormwater Inspections)

List below or attach your list of industrial and commercial facilities in your Inspection Plan to inspect that could reasonably be considered to cause or contribute to pollution of stormwater runoff.

Appendix B: Facilities List – TMD (Commercial and Industrial)

Appendix C: Facilities List – EH (Restaurant and Food Service)

C.4.d.iii.(2)(a) & (c) ► Facility Inspections

Fill out the following table or attach a summary of the following information. Indicate your reporting methodology below.

<input checked="" type="checkbox"/>	Permittee reports multiple discrete potential and actual discharges at a site as one enforcement action.
<input type="checkbox"/>	Permittee reports the total number of discrete potential and actual discharges on each site.
Number	
Total number of inspections conducted (C.4.d.iii.(2)(a))	104
Violations, enforcement actions, or discreet number of potential and actual discharges resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner (C.4.d.iii.(2)(c))	3
Comments: N/A	

C.4.d.iii.(2)(b) ► Frequency and Type of Enforcement Conducted

Fill out the following table or attach a summary of the following information.

	Enforcement Action (as listed in ERP) ¹	Number of Enforcement Actions Taken
Level 1	Verbal notice	6
Level 2	Written warning/NOV	2
Level 3	Notice to comply	1
Level 4	Legal action	0
Total		9

¹Agencies to list specific enforcement actions as defined in their ERPs.

C.4.d.iii.(2)(d) ▶ Frequency of Potential and Actual Non-stormwater Discharges by Business Category

Fill out the following table or attach a summary of the following information.

Business Category ²	Number of Actual Discharges	Number of Potential Discharges
Food facilities	2	1
Automotive	0	11
Manufacturing	0	1
Medical/dental	0	1
Hotel	0	1

C.4.d.iii.(2)(e) ▶ Non-Filers

List below or attach a list of the facilities required to have coverage under the Industrial General Permit but have not filed for coverage:

Appendix D: Non-Filers Facilities List – TMD (Commercial and Industrial)

C.4.e.iii ▶ Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Industrial/Commercial Site Inspectors in Attendance	Percent of Industrial/Commercial Site Inspectors in Attendance	No. of IDDE Inspectors in Attendance	Percent of IDDE Inspectors in Attendance
Stormwater Business and Illicit Discharge Inspectors Workshop	April 5, 2022	What to expect in MRP 3.0 Oakland Business Inspection Program Case Studies Enforcement Case Studies Illicit Discharge Enforcement Panel	3	75%	3	75%

Comments: **Three out of four current Industrial/Commercial Site Inspectors were in attendance; the fourth inspector was hired after this training.**

²List your Program's standard business categories.

Section 5 – Provision C.5 Illicit Discharge Detection and Elimination

Program Highlights and Evaluation
 Highlight/summarize activities for reporting year:

Summary:
 The City of Berkeley continued to participate in the Illicit Discharge Control Subcommittee (I&IDC) and associated work groups of the Alameda Countywide Clean Water Program (ACCWP). Please refer to the C.5 Illicit Discharge Detection and Elimination section of countywide program's FY 21-22 Annual Report for description of activities implemented at the countywide and/or regional level.

C.5.c.iii ► Complaint and Spill Response Phone Number

Summary of any changes made during FY 21-22: No Change

C.5.d.iii.(1), (2), (3) ► Spill and Discharge Complaint Tracking

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)	
	Number
Discharges reported (C.5.d.iii.(1))	2
Discharges reaching storm drains and/or receiving waters (C.5.d.iii.(2))	2
Discharges resolved in a timely manner (C.5.d.iii.(3))	2
Comments: See Section C.5 – Illicit Discharge Detection and Elimination – of the ACCWP's FY 21-22 Annual Report for a description of activities at the countywide and regional levels. The City of Berkeley attended I&IDC subcommittee meetings. All discharges were investigated whether or not the discharge reached the storm drain.	

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.(3)(a), (b), (c), (d) ▶ Site/Inspection Totals			
Number of active Hillside Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.3.a)	Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii. 3.c)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.3.b)	Total number of storm water runoff quality inspections conducted (include only Hillside Sites, High Priority Sites and sites disturbing 1 acre or more) (C.6.e.iii. 3.d)
7	4	7	71
Comments: N/A			
<p>Provide the number of inspections that are conducted at sites not within the above categories as part of your agency's inspection program and a general description of those sites, if available or applicable.</p> <p>Information not available</p>			

C.6.e.iii.(3)(e) ► Construction Related Storm Water Enforcement Actions

Verbal Notices are for threatened violations where there is no significant potential for an NSW, threat or harm, and require minimal effort to remedy in the presence of the inspector.

Written notice or NOVs are issued for BMP deficiencies that could result in harm or for discharges that can be stopped before entering the City's storm drain system.

Notice to Comply is issued in cases where an NSW has entered the storm drain, for violations where the potential for pollutant discharge is high and BMPs are ineffective or not implemented, or in cases where enforcement through Written Warnings or NOV's have not been successful.

Legal Action is reserved for actions which are not enforceable under the City's Municipal Code or are being considered for civil or criminal action.

	Enforcement Action (as listed in ERP) ¹	Number Enforcement Actions Issued
Level 1 ²	Verbal warning	8
Level 2	Written notice/NOV	4
Level 3	Notice to comply	0
Level 4	Legal action	0
Total		12

C.6.e.iii.(3)(f) ► Illicit Discharges

	Number
Number of illicit discharges, actual and those inferred through evidence at hillside sites, high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii. 3.f)	0

¹Agencies should list the specific enforcement actions as defined in their ERPs.
²For example, Enforcement Level 1 may be Verbal Warning.

C.6.e.iii.(3)(g) ► Corrective Actions	
Indicate your reporting methodology below.	
<input checked="" type="checkbox"/>	Permittee reports multiple discrete potential and actual discharges at a site as one enforcement action.
<input type="checkbox"/>	Permittee reports the total number of discrete potential and actual discharges on each site.
	Number
Enforcement actions or discrete potential and actual discharges fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii. .3.g)	0
Comments: All enforcement actions for FY 21-22 consisted of either lack of BMPs or inadequate BMPs.	

C.6.e.iii.(4) ► Evaluation of Inspection Data
Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.).
Description: The violations reported above were related to material storage and to sediment control with no discharge of sediment or other material. Verbal warnings were issued for all eight (8) or 100% of the violations, and eight (8), or 100% was corrected in a timely manner. Four (4) written warnings were issued and no violations required a higher level of enforcement.
In FY 21-22, 14% of the inspections resulted in written warning (or higher) enforcement actions. Higher in comparison to 2.75% of inspections requiring written warning (or higher) enforcement actions observed in FY 20-21, up from the 1% of inspections requiring written warning (or higher) enforcement actions observed in FY 17-18 and FY 18-19, and more than the 0% of inspections requiring written warning (or higher) enforcement actions observed in FY 19-20.

C.6.e.iii.(4) ► Evaluation of Inspection Program Effectiveness
Describe what appear to be your program's strengths and weaknesses, and identify needed improvements, including education and outreach.
Description: The City's construction inspectors have consistently inspected sites during the wet season for stormwater violations and documented their findings. Staff continue to be active members of the ACCWP New Development Subcommittee and BASMAA Development Committee, and regularly attended meetings in FY 21-22.
Please refer to the C.6 Construction Site Control section of the countywide program's FY 21-22 Annual Report for a description of activities at the countywide and/or regional level.

C.6.f.iii ► Staff Training Summary			
Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance
Joint CCCWP and ACCWP C.6 Construction Stormwater Training Workshop	March 30, 2022	MRP C.6 Refresher Regulatory Update: CGP and MRP Stories from the Field Discussion with the Inspector Panel	3

Section 7 – Provision C.7. Public Information and Outreach

C.7.b.i.1 ► Outreach Campaign

Summarize outreach campaign. Include details such as messages, creative developed, and outreach media used. The detailed outreach campaign report may be included as an attachment. If outreach campaign is being done by participation in a countywide or regional program, refer to the separate countywide or regional Annual Report.

Summary: In addition to contributing to the outreach campaign of the Alameda Countywide Clean Water Program (ACCWP), the City of Berkeley conducted nine (9) Public Outreach and Citizen Involvement events or programs in FY 21-22. These events were conducted to educate the public and Municipal officials about the importance of environmental stewardship and storm water pollution prevention.

See Section C.7 – Public Information and Outreach of the ACCWP FY 21-22 Annual Report for a summary of related ACCWP activities.

C.7.c. Stormwater Pollution Prevention Education

No change.

C.7.d ► Public Outreach and Citizen Involvement Events

Describe general approach to event selection. Provide a list of outreach materials and giveaways distributed. Use the following table for reporting and evaluating public outreach events

Event Details	Description (messages, audience)	Evaluation of Effectiveness
<p>Adopt-a-Drain Program Continuous, local event, with citizen involvement</p>	<p>Volunteer program hosted by the City of Berkeley for concerned citizens. Volunteers adopt a storm drain to reduce accumulation of trash and debris. Before and during a storm, citizens check their adopted storm drain and clear the storm drain. City employees assist with picking up garbage bags. This program has been improved this year with additional community engagement, production of a volunteer engagement video, and the in-</p>	<p>Approximately 56 volunteers have signed up for the program. The City will continue to reach out in FY 22-23 to those who have been a part of the program to confirm that they are still interested in participating, and improve upon recruitment to get more citizens involved.</p> <p>The City will have staff dedicated to improving this program and events for FY 22-23.</p>

	<p>progress development of a user-friendly GIS hub.</p> <p>https://berkeleyca.gov/community-recreation/volunteering/adopt-drain</p>	
<p>Adopt-a-Shoreline Program Continuous, local event, with citizen involvement</p>	<p>Interested groups can volunteer to adopt a shoreline for a day and conduct a guided clean-up around the Berkeley Marina. The experience typically includes a presentation in the Shorebird Nature Center Classroom on the global impact of plastics in oceans and waterways and the importance of citizen cleanups.</p> <p>https://berkeleyca.gov/shorelinecleanup</p>	<p>Approximately 260 people volunteered in FY 21-22. Approximately 439 lbs of material were picked up as a result of the program in FY 21-22.</p>
<p>Adopt-a-Traffic Circle Program Continuous, local event, with citizen involvement</p>	<p>Volunteer program hosted by the City of Berkeley for concerned citizens. Volunteers adopt a traffic circle in their neighborhoods to reduce accumulation of trash and debris.</p> <p>City employees assist with picking up garbage bags. This program has been improved this year with additional community engagement, production of a volunteer engagement video, and the in-progress development of a user-friendly GIS hub.</p> <p>https://berkeleyca.gov/community-recreation/volunteering/adopt-traffic-circle</p>	<p>Approximately 121 volunteers have signed up for the program. The City will continue to reach out in FY 22-23 to those who have been a part of the program to confirm that they are still interested in participating, and improve upon recruitment to get more citizens involved.</p> <p>The City will have staff dedicated to improving this program and events for FY 22-23.</p>
<p>Coastal Clean Up Day 2021 This event was held at Brickyard Cove on September 18, 2021. Local event, with citizen involvement.</p>	<p>Volunteer shoreline clean-up at the Brickyard Cove area of Aquatic Park hosted by the City.</p> <p>Volunteers are typically concerned about the environment and have a broad range</p>	<p>Approximately 195 lbs of trash was removed by 35 volunteers.</p> <p>Detailed data on the litter types/amounts were recorded and sent to the Ocean Conservancy to inform potential marine and waterway</p>

	of ages. Outreach messages include litter reduction and protecting the public shoreline.	pollution prevention legislation.
Berkeley Project Day, Fall 2021 – Lower Codornices Creek This event was held at Lower Codornices Creek between 2 nd Street and Eastshore Highway on November 6, 2021.	UC Berkeley students coordinated and provided volunteers to perform services for the public.	Approximately 43 student volunteers participated and helped remove approximately 900 pounds of trash and debris, including a backyard basketball hoop and a STOP/WALK light, from the banks of this area of Codornices Creek. Roughly 75 hypodermic needles were removed from this area.
Berkeley Project Day, Fall 2021 – Aquatic Park This event was on the shoreline of Aquatic Park on November 6, 2021.	UC Berkeley students coordinated and provided volunteers to perform services for the public.	Approximately 61 student volunteers participated and helped remove approximately 600 pounds of trash and debris from the banks of the lagoon at Aquatic Park. Roughly 30 hypodermic needles were removed from this area.
Berkeley Project Day, Spring 2022 – Aquatic Park This event was on the shoreline of Aquatic Park on April 16, 2022.	UC Berkeley students coordinated and provided volunteers to perform services for the public.	Approximately 45 student volunteers participated and helped remove approximately 640 pounds of trash and debris from the banks of the lagoon at Aquatic Park.
City of Berkeley Earth Day Shoreline Cleanup Held on April 23, 2022 at Brickyard Cove at Aquatic Park.	Volunteer shoreline clean-up at the Brickyard Cove area of Aquatic Park hosted by the City. Volunteers are typically concerned about the environment and have a broad range of ages. Outreach messages include litter reduction and protecting the public shoreline.	Approximately 480 lbs of trash was removed by 155 volunteers.
Green Infrastructure Webinar Held on December 9, 2021.	Webinar was held regarding California-native and drought-tolerant plants, the City's planting policy, and how these relate to the Adopt-a-Traffic Circle program.	Approximately 6 volunteer citizens participated in the live Webinar, which included a lively discussion of policies, planting best practices, and maintenance needs for climate-resistant plants and the GI features in the City.

C.7.e. ► Watershed Stewardship Collaborative Efforts

Summarize watershed stewardship collaborative efforts and/or refer to a regional report that provides details. Describe the level of effort and support given (e.g., funding only, active participation etc.). State efforts undertaken and the results of these efforts. If this activity is done regionally refer to a regional report.

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary: The City of Berkeley has been working collaboratively with Friends of Five Creeks, the City of Albany, and UC Berkeley to improve conditions along Codornices Creek between San Pablo Avenue and Second Street. The City of Berkeley actively participates as a Stakeholder and as a Technical Advisory Committee (TAC) member of the East Bay Plain Subbasin Groundwater Sustainability Plan Development, which is managed by EBMUD and the City of Hayward, and guided by the Sustainable Groundwater Management Act of 2014. The City participates in these groups to provide opinion on draft Plan development and future execution. The City of Berkeley has been an active participant in Stakeholder and TAC meetings during FY 21-22. Program information can be found here: <https://www.ebmud.com/water/about-your-water/water-supply/groundwater-sustainability-agencies/>.

City of Berkeley staff attended ACCWP Public Information/Participation (PIP) subcommittee meetings in FY 21-22.

For accomplishments at the countywide level see the Countywide Program Report.

C.7.f. ► School-Age Children Outreach

Summarize school-age children outreach programs implemented. A detailed report may be included as an attachment. Use the following table for reporting school-age children outreach efforts.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Refer to the C.7 Section of the countywide program's FY 21-22 Annual Report for a description of School-age Children Outreach efforts conducted at the countywide level.			

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.a. ► Implement IPM Policy or Ordinance						
Is your municipality implementing its IPM Policy/Ordinance and Standard Operating Procedures?				<input checked="" type="checkbox"/> X	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If no, explain: N/A						
Report implementation of IPM BMPs by showing trends in quantities and types of pesticides used, and suggest reasons for increases in use of pesticides that threaten water quality , specifically organophosphates, pyrethroids, carbamates fipronil, indoxacarb, diuron, and diamides. A separate report can be attached as evidence of your implementation.						
Trends in Quantities and Types of Pesticide Active Ingredients Used¹						
Pesticide Category and Specific Pesticide Active Ingredient Used	Amount ²					
	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22
Organophosphates	0	0	0	0	0	0
Active Ingredient Chlorpyrifos	0	0	0	0	0	0
Active Ingredient Diazinon	0	0	0	0	0	0
Active Ingredient Malathion						
Pyrethroids (see footnote #2 for list of active ingredients)	N/A	N/A	N/A	N/A	N/A	N/A
Active Ingredient Type X	N/A	N/A	N/A	N/A	N/A	N/A
Active Ingredient Type Y						
Carbamates	0	0	0	0	0	0
Active Ingredient Carbaryl	0	0	0	0	0	0
Active Ingredient Aldicarb	0	0	0	0	0	0
Fipronil	0	0	0	0	0	0
Pesticide Category and Specific Pesticide Active Ingredient Used	Amount					
	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	FY 21-22

¹Includes all municipal structural and landscape pesticide usage by employees and contractors.

²Weight or volume of the active ingredient, using same units for the product each year. Please specify units used. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: metofluthrin, bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambdacyhalothrin, and permethrin.

Indoxacarb	0	0	0	0	0	0
Diuron	0	0	0	0	0	0
Diamides						
Active Ingredient Chlorantraniliprole	0	0	0	0	0	0
Active Ingredient Cyantraniliprole	0	0	0	0	0	0

Reasons for increases in use of pesticides that threaten water quality: N/A

IPM Tactics and Strategies Used:

The City of Berkeley employs a combination of "physical" and "cultural" methods to control rodents at permitted food facilities and in residential communities whenever rodents and/or evidence of rodents are present through visual sightings, "fresh droppings," "rub marks," nesting, and gnawing marks. This strategy involved concepts of controlling the immediate environment by identifying factors which serve to sustain a pest population (whether they be insect or rodent) by eliminating available food and water sources to the extent feasible, and by removing potential harborages (*i.e.* dense vegetation in/around the structure and premises).

Additionally, by identifying access points into a building structure (*e.g.* a home or restaurant), physical barriers can be put into place using sound construction methods to prevent entrance (*i.e.* sealing up known and potential entrance/access points). Once the access points have been sealed, traps (usually snap traps), are employed to eliminate the rodents inside the structure without the use of pesticides.

C.9.b ► Train Municipal Employees

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	4
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within this reporting year.	4
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within this reporting year.	100%
Type of Training: Vector Control Program staff received in-service training on a new carbon dioxide gas (CO2) injection system (EPA Registration Number: 7173-313). The training was provided by the product manufacturer (Liphatech, Inc.), a licensed pest control contractor.	

C.9.c ▶ Require Contractors to Implement IPM			
Did your municipality contract with any pesticide service provider in the reporting year, for either landscaping or structural pest control?	<input checked="" type="checkbox"/>	Yes	No
If yes, did your municipality evaluate the contractor's list of pesticides and amounts of active ingredients used?	<input checked="" type="checkbox"/>	Yes	No
<p>If your municipality contracted with any pesticide service provider, briefly describe how contractor compliance with IPM Policy/Ordinance and SOPs was monitored. Pest control service providers hired by the City use a multi-step IPM approach. Pest inspection reports are reviewed by the City's assigned IPM staff in the Environmental Health Department. Pest control services providers first use techniques approved by the City's IPM staff, such as physical exclusion, sanitation, and non-chemical treatment. Prior to applying any chemical pesticides, pest control service providers are required to demonstrate what previous actions were taken and provide a list of active ingredients in the pesticide(s) to the City's IPM staff for approval.</p>			
<p>If your agency did not evaluate the contractor's list of pesticides and amounts of active ingredients used, provide an explanation. N/A</p>			

C.9.d ▶ Interface with County Agricultural Commissioners			
Did your municipality communicate with the County Agricultural Commissioner to: (a) get input and assistance on urban pest management practices and use of pesticides or (b) inform them of water quality issues related to pesticides,	<input type="checkbox"/>	Yes	No
<p>If yes, summarize the communication. If no, explain. The City of Berkeley did not communicate with the County Agricultural Commissioner this year since City of Berkeley Environmental Health Division (EHD) has moved away from the use of chemical-based rodenticides. Instead, EHD worked closely with the California Department of Public Health's Vector borne Division and UC Extensions to research the use and the benefits of using CO2 gas as our primary pesticide of choice for treating burrowing rats. After receiving extensive training from the manufacturer of the "IGI Eliminator", EHD has incorporated the use of this non-toxic, non-hazardous form of rat control, which follows closely the goals and objectives of IPM, and additional consultation with the County's Agricultural Commissioner's Office was not necessary.</p> <p>Please see the Alameda Countywide Clean Water Program's FY 21-22 Annual Report for information at the countywide level.</p>			
Did your municipality report any observed or citizen-reported violations of pesticide regulations (e.g., illegal handling and applications of pesticides) associated with stormwater management, particularly the California Department of Pesticide Regulation (DPR) surface water protection regulations for outdoor, nonagricultural use of pyrethroid pesticides by any person performing pest control for hire.	<input type="checkbox"/>	Yes	No
<p>If yes, provide a summary of improper pesticide usage reported to the County Agricultural Commissioner and follow-up actions taken to correct any violations. A separate report can be attached as your summary. N/A</p>			

C.9.e.ii (1) ► Public Outreach: Point of Purchase

Provide a summary of public outreach at point of purchase, and any measurable awareness and behavior changes resulting from outreach (here or in a separate report); **OR** reference a report of a regional effort for public outreach in which your agency participates.

Summary: See the C.9 Pesticides Toxicity Control section of Countywide Program's FY 21-22 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

C.9.e.ii (2) ► Public Outreach: Pest Control Contracting Outreach

Provide a summary of outreach to residents who use or contract for structural pest control and landscape professionals); **AND/OR** reference a report of a regional effort for outreach to residents who hire pest control and landscape professionals in which your agency participates.

Summary: See the C.9 Pesticides Toxicity Control section of Countywide Program's FY 21-22 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

C.9.e.ii.(3) ► Public Outreach: Pest Control Operators

Provide a summary of public outreach to pest control operators and landscapers and reduced pesticide use (here or in a separate report); **AND/OR** reference a report of a regional effort for outreach to pest control operators and landscapers in which your agency participates.

Summary: See the C.9 Pesticides Toxicity Control section of Program's FY 21-22 Annual Report for a summary of our participation in and contributions towards countywide and regional public outreach to pest control operators and landscapers to reduce pesticide use.

C.9.f ► Track and Participate in Relevant Regulatory Processes

Summarize participation efforts, information submitted, and how regulatory actions were affected; **AND/OR** reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected.

Summary: During FY 21-22, we participated in regulatory processes related to pesticides through contributions to the countywide Program and CASQA. For additional information, see the Regional Report prepared by CASQA.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.i ► Trash Load Reduction Summary	
For population-based Permittees, provide the overall trash reduction percentage achieved to-date within the jurisdictional area of your municipality that generates problematic trash levels (i.e., Very High, High, or Moderate trash generation). Base the reduction percentage on the information presented in C.10.b i-iv and C.10.e.i-ii. Provide a discussion of the calculation used to produce the reduction percentage	
Trash Load Reductions	
Percent Trash Reduction in All Trash Management Areas (TMAs) due to Trash Full Capture Systems (as reported C.10.b.i)	63.1%
Percent Trash Reduction in all TMAs due to Control Measures Other than Trash Full Capture Systems (as reported in C.10.b.ii) ¹	0%
Percent Trash Reduction due to Jurisdiction-wide Source Control Actions (as reported in C.10.b.iv)	10%
SubTotal for Above Actions	73.1%
Trash Offsets (Optional)	
Offset Associated with Additional Creek and Shoreline Cleanups (as reported in C.10.e.i)	10%
Offset Associated with Direct Trash Discharges (as reported in C.10.e.ii)	0%
Total (Jurisdiction-wide) % Trash Load Reduction through FY 2021-22	83.1%
<p>Discussion of Trash Load Reduction Calculation: The City of Berkeley remains in compliance with the Trash Reduction Requirements stipulated in Provision C.10.a. of the Permit. As detailed in Appendix 10-1, the percentage discharge reduction from Full Trash Capture Systems was calculated using the formula provided in Section C.10.b.iii of the Permit. As detailed in Appendix 10-2, the additional Creek and Shoreline Cleanup Offset was calculated using the Reduction Offset formula provided in Section C.10.e of the Permit.</p> <p>The City intends to have a fresh visual assessment completed during FY 22-23 to update trash generation maps and for comparison to 2009 baseline numbers. Please find the most recent version of the City of Berkeley's trash generation map attached as Appendix E of this report.</p>	

¹ See Appendix 10-1 for changes between 2009 and FY 21-22 in trash generation by TMA as a result of Full Capture Systems and Other Measures.

C.10.a.iii ► Mandatory Trash Full Capture Systems		
Provide the following:		
1) Total number and types of full capture systems (publicly and privately-owned) installed during FY 21-22, and prior to FY 21-22, including inlet-based and large flow-through or end-of-pipe systems, and qualifying low impact development (LID) required by permit provision C.3.		
2) Total land area (acres) treated by full capture systems for population-based Permittees and total number of systems for non-population based Permittees compared to the total required by the permit.		
Type of System	# of Systems	Areas Treated (Acres)
Installed in FY 21-22		
None	N/A	N/A
Installed Prior to FY 21-22		
Full Trash Capture Devices – Connector Pipe Screens	409	1,527
Total for all Systems Installed To-date		1,527
Treatment Acreage Required by Permit (Population-based Permittees)		55
Total # of Systems Required by Permit (Non-population-based Permittees)		N/A

C.10.b.i ► Trash Reduction - Full Capture Systems

Provide the following:

- 1) Jurisdiction-wide trash reduction in FY 21-22 attributable to trash full capture systems implemented in each TMA;
- 2) The total number of full capture systems installed to-date in your jurisdiction;
- 3) The percentage of systems in FY 21-22 that exhibited significant plugged/blinded screens or were >50% full when inspected or maintained;
- 4) A narrative summary of any maintenance issues and the corrective actions taken to avoid future full capture system performance issues; and
- 5) A certification that each full capture system is operated and maintained to meet the full capture system requirements in the permit.

TMA	Jurisdiction-wide Reduction (%)	Total # of Full Capture Systems	% of Systems Exhibiting Plugged/Blinded Screens or >50% full in FY 21-22	Summary of Maintenance Issues and Corrective Actions
TMA #1	63.1%	409	6.5%	No maintenance issues were identified in the reporting period.
TMA #2	0%			
Total	63.1%			

Certification Statement:

The City of Berkeley certifies that the full trash capture system maintenance and operation program is currently being implemented to maintain all applicable systems in a manner that meets the full trash capture system maintenance requirements of the Permit.

C.10.b.ii ► Trash Reduction – Other Trash Management Actions (PART A)

Provide a summary of trash control actions other than full capture systems or jurisdictional source controls that were implemented within each TMA, including the types of actions, levels, and areal extent of implementation, and whether actions are new, including initiation date.

TMA	Summary of Trash Control Actions Other than Full Capture Systems
TMA #1 and #2	Street Sweeping – The goal of the City of Berkeley street sweeping program, which covered residential, commercial, and industrial areas, is to remove debris from streets that might otherwise be transported to receiving waters. The street sweeping schedule fluctuates depending on the demand of the community. In coordination with the City of Berkeley, the Downtown Berkeley Association regularly sweeps and removes litter from the sidewalk and gutter in the downtown area. Additionally, the Downtown Berkeley Association provides services for basic clearing of litter and loose debris from storm drains.
TMA #1 and #2	On-land Cleanup - City staff does weekly trash pickups at encampments around the City. The estimated amount of encampment trash picked up during FY 20-21 was 130.79 tons; FY 21-22 was 171.68 tons Homeless Response Team: In FY 21-22, the City received funding for a Homeless Response Team (HRT). The team includes outreach workers who offer social services and housing to homeless individuals, and maintenance staff that dismantle

	encampments and remove trash and debris from creeks and other areas throughout the City. The estimated amount of encampment trash picked up during FY 21-22 was 3.86 tons.
TMA#s #1 and #2	Storm Drain Inlet Cleaning – In addition to maintaining Full Trash Capture Devices, City staff inspect and clean storm drain inlets at regular intervals and on an as-needed basis. Berkeley hosts and participates in volunteer efforts such as the Adopt-a-Spot – Stormwater program, which provides citizens with resources to maintain catch basins in their neighborhoods.
TMA#s #1 and #2	Uncovered Loads – The City of Berkeley has implemented a \$15 fee for each customer entering the Transfer Station with an unsecured load. Unsecured loads are sources of a variety of trash types, generally items that can blow out of the transporting vehicles. The program went into effect on July 1, 2014.
TMA#s #1 and #2	Anti-Littering and Illegal Dumping Enforcement Activities – In various areas of the City, illegal dumping and materials, debris, and waste are dumped in City streets and parks. The City of Berkeley actively enforces against illegal dumping and quickly responds to public complaints regarding illegal dumping. As detailed in Section C.7 – Public Information and Outreach – of this report, the City promotes anti-littering messages using a variety of methods. The City of Berkeley has a comprehensive Tobacco Prevention Program which has a secondary effect in reducing cigarette butt litter.
TMA#s #1 and #2	Improved Trash Bin/Container Management – The City has installed 28 BigBelly side by side litter and recycling cans (fully enclosed) units in the Downtown Berkeley and Telegraph business area as a pilot to assist efforts to reduce litter in the storm drains. All litter cans are serviced once per day seven days per week, 361 days per year. In the Berkeley Downtown and Telegraph business districts are collected twice daily, Monday through Saturday, 52 weeks per year except for the following holidays, July 4th, Thanksgiving, Christmas and New Years days.
TMA#s #1 and #2	Partial Capture Devices – The City of Berkeley has several LID facilities, installed after 2009, that serve as partial trash capture devices. Below is a summary of LIDs and maintenance activities: <ul style="list-style-type: none"> • <u>Presentation Park</u> – A rain garden in Presentation Park collects, partially cleans, and infiltrates stormwater runoff from Allston Way before it enters the creek just a few blocks west in Strawberry Creek Park. Maintenance activities include trash removal, irrigation, and plant care. • <u>Spruce and Vine</u> – Stormwater runoff from Vine Street is captured in an inlet and routed into a planted bioretention area (rain garden) inside the traffic circle. This area reduces water volume on the street by holding the water temporarily, allowing it to infiltrate slowly through the vegetation and porous soil, and recharge groundwater. Maintenance activities include trash removal, irrigation, and plant care, and are performed by both the City and volunteer residents. These features were refreshed by the City for ongoing volunteer maintenance in 2020 and 2021. • <u>Eunice and Milvia</u> – The project combines permeable pavers and a retention vault to screen and store stormwater runoff from approximately nine (9) acres. The permeable pavers screen out trash and the cistern stores up to 1,600 cubic feet of stormwater. Maintenance includes regular sweeping for trash and silt removal from the permeable pavers. • <u>Milvia and Hopkins</u> – This installation of permeable pavement and infiltration planter wells remove litter and sediment at the intersection of Hopkins Street and Milvia Street. Maintenance for the permeable pavement includes regular sweeping for trash and silt removal. Maintenance of the planter wells includes trash removal and plant care.

	<ul style="list-style-type: none"> • <u>Allston Way Permeable Pavement</u> – Permeable pavers, covering the full width of Allston Way between Milvia Street and Martin Luther King, Jr. Way in downtown Berkeley, allow trash to settle out prior to entering the storm drain. Maintenance for these permeable pavement includes regular street sweeping for trash and silt removal. • <u>Shattuck and University Permeable Bus Pad</u> – In FY 2017-2018, the City replaced a concrete bus pad with permeable pavers at this busy intersection. The pavers allow trash to settle out prior to entering the storm drain. Maintenance for the permeable pavement includes regular street sweeping for trash and silt removal. • <u>Hearst Complete Streets Bioretention Planter (at Hearst and Oxford)</u> – Stormwater runoff from Hearst Avenue is captured in a catch basin and routed into a planted bioretention areas. This area allows stormwater to infiltrate slowly through the porous soil, a process that screens out trash from the runoff. Maintenance activities include trash removal, irrigation, and plant care. • <u>Bioswale at Rose and Hopkins</u> – Stormwater runoff from Rose Street is captured in a catch basin and routed into a large planted bioswale. This allows stormwater to infiltrate slowly through the porous soil, a process that screens out trash from the runoff. Maintenance activities include trash removal, irrigation, and plant care. • <u>Woolsey Street LID</u> – Funded by Measure M, the Woolsey Street LID was installed to help ease observed flooding in the neighborhood in the vicinity of Malcolm X Elementary School and treat urban runoff. This project included the construction of a bioswale and installation of a large underground cistern on Woolsey Street between Adeline Street and Tremont Street. Maintenance activities include trash removal, irrigation, plant care, and silt removal. • <u>Ward Street Permeable Concrete</u> – Measure T1-funded permeable pavement concrete has been constructed on Ward Street between Mabel Street and Park Street, which is the first project of its kind in Northern California. Improvements were made to this block's parking lane and to curb ramp access to San Pablo Park at the corner of Ward Street and Mabel Street. These improvements reduce the flooding and runoff build up known to occur in this area, particularly at the access ramp. Permeable concrete reduces runoff from rain and filters out pollutants in runoff by trapping suspended solids. • <u>San Pablo Avenue Green Stormwater Spine Project</u> – A grant-funded, multi-city effort working with CalTrans and the San Francisco Estuary Partnership (SFEP). These installations, running along San Pablo Avenue (a state highway) between every city from Oakland to San Pablo, combine to create highly visible green infrastructure that cumulatively treats over seven (7) acres of impervious surface runoff using GI and LID technologies. Berkeley's Spine contribution, a bioswale, can be found on the west side of San Pablo Avenue at the curb in front of the McDonald's restaurant at 1198 San Pablo Avenue. Improvements include a parking lane bulbout, fencing, bike racks, and signage explaining the feature. • <u>Industrial Area Bioswales in the Gilman Watershed</u> – Complete in early 2021, these bioswale installations can be found where the railroad intersects with Channing Way, Dwight Way, Page Street, and Grayson Street. Per the 2019 GI Plan, these sites were selected as a result of a multi-benefit analysis tool and are in historically industrial areas of Berkeley, adjacent to railroad tracks, and at a relatively lower elevation than most of the City. Stormwater runoff that flows through these areas may be impacted by PCBs, mercury, and other industrial byproducts that should be filtered out and treated before reaching the Bay. • <u>Piedmont Circle</u> – The refreshed traffic circle and roadway medians at Piedmont Avenue and Channing Way adjacent to the UC Berkeley campus are major GI features completed in early 2021. This location was selected for GI due to heavy traffic and its position on the hill slope. With cooperation from UC Berkeley and Measure T1 funding, the City installed irrigation lines, rain flow sensor cable, tree root watering system, and drought tolerant plants, creating large bioswales with curb cuts to allow water to flow in from the road.
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	<ul style="list-style-type: none">• <u>Milvia Street Bioretention Area</u> – Stormwater runoff from a section of Milvia between Allston Way and Center Street enters a planted bioretention area through curb cut inlets. This feature allows stormwater to infiltrate slowly through engineered soil media and partially captures trash within the basin. Maintenance activities include trash removal, irrigation, and plant care.• <u>University Ave/Marina Boulevard Traffic Circle Bioretention</u> – Stormwater runoff from newly installed traffic circle at the intersection of University Ave and Marina Blvd is routed to planted bioswales through curb cut inlets. These feature allow stormwater to infiltrate slowly through engineered soil media and partially captures trash within the basin. Maintenance activities include trash removal, irrigation, and plant care.
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C.10.b.ii ► Trash Reduction – Other Trash Management Actions (PART B)

Provide the following:

- 1) A summary of the on-land visual assessments in each TMA (or control measure area), including the street miles or acres available for assessment (i.e., those associated with VH, H, or M trash generation areas not treated by full capture systems), the street miles or acres assessed, the % of available street miles or acres assessed, and the average number of assessments conducted per site within the TMA; and
- 2) Percent jurisdictional-wide trash reduction in FY 21-22 attributable to trash management actions other than full capture systems implemented in each TMA; OR
- 3) Indicate that no on-land visual assessments were performed.

If no on-land visual assessments were performed, check here
and state why:

Explanation: The City of Berkeley has complied with the Trash Reduction Requirements of the Permit primarily via Full Trash Capture. At this time, the City is not claiming reduction credit for Other Trash Management Actions.

C.10.b.iv ► Trash Reduction – Source Controls				
Provide a description of each jurisdiction-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.				
Source Control Action	Summary Description & Dominant Trash Sources and Types Targeted	Evaluation/Enforcement Method(s)	Summary of Evaluation/Enforcement Results To-date	% Reduction
Single-use Plastic Bag Ordinance or Policy	The Alameda County Waste Management Authority adopted the expanded Single-Use Bag Ban. As of May 1, 2017 all retail stores were covered by the ban, and all restaurants were covered by the ban as of November 1, 2017. A copy of the Ordinance is available on the Alameda County Waste Management Authority's website: http://www.reusablebagsac.org/acwma-ordinance-2012-2-amended-ordinance-2016-2	See Section C.10 of the ACCWP FY 21/22 Annual Report.	See Section C.10 of the ACCWP FY 21/22 Annual Report.	6%
Expanded Polystyrene Food Service Ware Ordinance or Policy	Single-use Bag Ordinance and Expanded Polystyrene Ordinance document implementation, enforcement, and effectiveness relative to the programs of any Permittee whose effectiveness data are cited to obtain trash reduction value. Reference or attach separate reports as applicable.	See Section C.10 of the ACCWP FY 21/22 Annual Report.	See Section C.10 of the ACCWP FY 21/22 Annual Report.	4%

C.10.c ► Trash Hot Spot Cleanups

Provide the FY 21-22 cleanup date and volume of trash removed during each MRP-required Trash Hot Spot cleanup during each fiscal year listed. Indicate whether the site was a new site in FY 21-22.

Trash Hot Spot	New Site in FY 21-22 (Y/N)	FY 21-22 Cleanup Date(s)	Volume of Trash Removed (cubic yards)					
			FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
Brickyard Cove	N	4/16/2022	260 lbs	1.4 CY	3.9 CY	0.5 CY	0 CY**	1.8 CY
Aquatic Park	N	4/23/22, 11/6/21	200 lbs	0.9 CY	0.8 CY	0 CY**	0 CY**	4.3 CY
Codornices Creek	N	11/6/21	38 CY*	30 CY	4.4 CY	0 CY***	0 CY***	3.6 CY

*As discussed with the SF Bay Regional Water Quality Control Board staff in January 2017, the City will be reporting the amount of trash removed during hot spot cleanups in cubic yards moving forward.

** City-sponsored Aquatic Park clean up was initially put on hold due to water quality issues and was meant to be rescheduled for the spring after water quality returned to a safe range. However, due to COVID-19 shelter in place orders, effective March 2020, this clean up was not safely able to be officially rescheduled by the City of Berkeley. The City of Berkeley hopes to safely conduct a sanctioned event for hot spot clean up of Aquatic Park in FY 21-22, pending local Health Department orders.

*** Codornices Creek clean up is typically scheduled for the spring, but due to COVID-19 shelter in place orders, effective March 2020, this clean up was not safely able to be officially rescheduled by the City of Berkeley. It should be noted that local private interest groups conducted their own cleanups of Codornices Creek throughout FY 20-21. The City of Berkeley, along with the University of California at Berkeley and the City of Albany, teamed up with a local business owner to install safety fencing around a lower portion of Codornices Creek that has been the focus of homeless encampments and illegal dumping in recent years. This fencing, installed in Winter 2019-2020, has prevented a significant amount of dumping activity in this area since, dramatically decreasing the necessity for hot spot cleanup at the lower end of Codornices Creek.

C.10.d ► Long-Term Trash Load Reduction Plan

Provide descriptions of significant revisions made to your Long-term Trash Load Reduction Plan submitted to the Water Board in February 2014. Describe significant changes made to primary or secondary trash management areas (TMA), baseline trash generation maps, control measures, or time schedules identified in your plan. Indicate whether your baseline trash generation map was revised and, if so, what information was collected to support the revision. If your baseline trash generation map was revised, attach it to your Annual Report.

Description of Significant Revision	Associated TMA
None	N/A

C.10.e. ► Trash Reduction Offsets (Optional)

Provide a summary description of each offset program implemented, the volume of trash removed, and the offset claimed in FY 21-22. Also, for additional creek and shoreline cleanups, describe the number and frequency of cleanups conducted, and the locations and cleanup dates. For direct discharge control programs approved by the Water Board Executive Officer, also describe the results of the assessments conducted in receiving waters to demonstrate the effectiveness of the control program. Include an Appendix that provides the calculations and data used to determine the trash reduction offset.

Offset Program	Summary Description of Actions and Assessment Results	Volume of Trash (CY) Removed/Controlled in FY 21-22	Offset (% Jurisdiction-wide Reduction)
Additional Creek and Shoreline Cleanups (Max 10% Offset)	The City of Berkeley Parks, Recreation, and Waterfront Department (PRW) conducted weekly trash clean-ups along the shoreline at Aquatic Park in FY 21-22. 373 cubic yards of trash were removed from the shoreline area in FY 21-22, which is equivalent to a 10% reduction using the Reduction Offset formula provided in Section C.10.e of the Permit (see Appendix 10-2). These efforts were sufficient to demonstrate sustained improvement of the shoreline area.	373 CY	10%
Direct Trash Discharge Controls (Max 15% Offset)	N/A	N/A	N/A

Appendix 10-1. Baseline trash generation and areas addressed by full capture systems and other control measures in Fiscal Year 21-22.

TMA	2009 Baseline Trash Generation (Acres)					Trash Generation (Acres) in FY 21-22 After Accounting for Full Capture Systems					Jurisdiction-wide Reduction via Full Capture Systems (%)	Trash Generation (Acres) in FY 21-22 After Accounting for Full Capture Systems and Other Control Measures					Jurisdiction-wide Reduction via Other Control Measures (%)	Jurisdiction-wide Reduction via Full Capture AND Other Control Measures (%)
	L	M	H	VH	Total	L	M	H	VH	Total		L	M	H	VH	Total		
TMA #1 & #2	2,792	2,317	763	216	6,088	4,146	1,707	199	36	6,088	63.1%	4,146	1,707	199	36	6,088	0%	63.1%
Totals	2,792	2,317	763	216	6,088	4,146	1,707	199	36	6,088	63.1%	4,146	1,707	199	36	6,088	0%	63.1%

Note: "NA" indicates that the TMA has no moderate, high, or very high trash generating areas (i.e., all low trash generation and/or non-jurisdictional) and therefore no additional trash control measures are needed.

Appendix 10-2. Calculation of Additional Creek and Shoreline Cleanup Offset for Fiscal Year 21-22

$$1\% \text{ Reduction Offset (Volume)} = (12A_{VH(2009)} + 4A_{H(2009)} + A_{M(2009)}) \text{ OF}$$

where:

- $A_{VH(2009)}$ = total amount of the 2009 very high trash generation category jurisdictional area
- $A_{H(2009)}$ = total amount of the 2009 high trash generation category jurisdictional area
- $A_{M(2009)}$ = total amount of the 2009 moderate trash generation category jurisdictional area
- 12 = Very High to Moderate weighing ratio
- 4 = High to Moderate weighing ratio
- OF = offset factor equal to (7.5 x 0.1) for the 2019 mandatory trash load reduction deadline, where 7.5 is the conversion from acres to gallons based on trash generation rates and 0.1 is the ten to one offset ratio

$$1\% \text{ Reduction offset} = (12(216) + 4(763) + 2,317) \times (7.5 \times 0.1)$$

1% Reduction Offset for each 5,971 gallons removed

373 CY = 64,741 dry gallons

64,741 gallons/5,971 gallons = 10.84% Reduction Offset (10% is maximum allowed)

Section 11 - Provision C.11 Mercury Controls

- C.11.a ▶ Implement Control Measures to Achieve Mercury Load Reductions**
- C.11.b ▶ Assess Mercury Load Reductions from Stormwater**
- C.11.c ▶ Plan and Implement Green Infrastructure to Reduce Mercury Loads**

See the Countywide Program's FY 2021-22 Annual Report for updated information on:

- Documentation of mercury control measures implemented in our agency's jurisdictional area for which load reductions will be reported and the associated management areas;
- A description of how the BASMAA Interim Accounting Methodology¹ was used to calculate the mercury load reduced by each control measure implemented in our agency's jurisdictional area (including green infrastructure) and the calculation results (i.e., the estimated mercury load reduced by each control measure);
- Supporting data and information necessary to substantiate the load reduction estimates; and
- For Executive Officer approval, any refinements, if necessary, to the measurement and estimation methodologies to assess mercury load reductions in the subsequent permit.

C.11.e ▶ Implement a Risk Reduction Program

A summary of Program and regional accomplishments for this sub-provision, including a brief description of actions taken, an estimate of the number of people reached, and why these people are deemed likely to consume Bay fish are included in the Countywide Program's FY 2021-22 Annual Report.

¹BASMAA 2017. Interim Accounting Methodology for TMDL Loads Reduced, Version 1.1. Prepared for BASMAA by Geosyntec Consultants and EOA, Inc., March 23, 2017.

Section 11 - Provision C.11 Mercury Controls

- C.11.a ▶ Implement Control Measures to Achieve Mercury Load Reductions**
- C.11.b ▶ Assess Mercury Load Reductions from Stormwater**
- C.11.c ▶ Plan and Implement Green Infrastructure to Reduce Mercury Loads**

See the Countywide Program's FY 2021-22 Annual Report for updated information on:

- Documentation of mercury control measures implemented in our agency's jurisdictional area for which load reductions will be reported and the associated management areas;
- A description of how the BASMAA Interim Accounting Methodology¹ was used to calculate the mercury load reduced by each control measure implemented in our agency's jurisdictional area (including green infrastructure) and the calculation results (i.e., the estimated mercury load reduced by each control measure);
- Supporting data and information necessary to substantiate the load reduction estimates; and
- For Executive Officer approval, any refinements, if necessary, to the measurement and estimation methodologies to assess mercury load reductions in the subsequent permit.

C.11.e ▶ Implement a Risk Reduction Program

A summary of Program and regional accomplishments for this sub-provision, including a brief description of actions taken, an estimate of the number of people reached, and why these people are deemed likely to consume Bay fish are included in the Countywide Program's FY 2021-22 Annual Report.

¹BASMAA 2017. Interim Accounting Methodology for TMDL Loads Reduced, Version 1.1. Prepared for BASMAA by Geosyntec Consultants and EOA, Inc., March 23, 2017.

Section 12 - Provision C.12 PCBs Controls

C.12.a ► Implement Control Measures to Achieve PCBs Load Reductions

C.12.b ► Assess PCBs Load Reductions from Stormwater

C.12.c. ► Plan and Implement Green Infrastructure to Reduce PCBs Loads

See the Countywide Program's FY 2021-22 Annual Report for:

- Documentation of PCBs control measures implemented in our agency's jurisdictional area for which load reductions will be reported and the associated management areas;
- A description of how the BASMAA Interim Accounting Methodology¹ was used to calculate the PCBs load reduced by each control measure implemented in our agency's jurisdictional area (including green infrastructure) and the calculation results (i.e., the estimated PCBs load reduced by each control measure);
- Supporting data and information necessary to substantiate the load reduction estimates; and
- For Executive Officer approval, any refinements, if necessary, to the measurement and estimation methodologies to assess PCBs load reductions in the subsequent permit.

C.12.f. ► Manage PCB-Containing Materials During Building Demolition

See the Countywide Program's FY 2021-22 Annual Report for:

- Documentation of the number of applicable structures in each Permittee's jurisdiction for which a demolition permit was applied for during the reporting year; and
- A running list of the applicable structures in each Permittee's jurisdiction for which a demolition permit was applied for (since the date the PCBs control program was implemented) that had material(s) with PCBs at 50 ppm or greater, with the address, demolition date, and brief description of PCBs control method(s) used.

C.12.h ► Implement a Risk Reduction Program

A summary of Countywide Program and regional accomplishments for this sub-provision, including a brief description of actions taken, an estimate of the number of people reached, and why these people are deemed likely to consume Bay fish are included in the Countywide Program's FY 2021-22 Annual Report.

¹BASMAA 2017. Interim Accounting Methodology for TMDL Loads Reduced, Version 1.1. Prepared for BASMAA by Geosyntec Consultants and EOA, Inc., September 19, 2017.

Section 13 - Provision C.13 Copper Controls

C.13.a.iii.(3) ► Manage Waste Generated from Cleaning and Treating of Copper Architectural Features

Provide summaries of permitting and enforcement activities to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction.

Summary:

Permits are issued with a Pollution Prevention sheet detailing various best management practices and directing applicants to an available Architectural Copper fact sheet for projects incorporating Architectural Copper. Inspections follow the City of Berkeley's enforcement Response Plan when observing non-stormwater (e.g. wash water) being discharged.

C.13.b.iii.(3) ► Manage Discharges from Pools, Spas, and Fountains that Contain Copper-Based Chemicals

Provide summaries of any enforcement activities related to copper-containing discharges from pools, spas, and fountains.

Summary:

There were no enforcement activities related to copper-containing discharges from pools, spas, and fountains during this reporting period.

C.13.c.iii ► Industrial Sources Copper Reduction Results

Based upon inspection activities conducted under Provision C.4, highlight copper reduction results achieved among the facilities identified as potential users or sources of copper, facilities inspected, and BMPs addressed.

Summary:

A total of one (1) inspection was conducted at Berkeley businesses identified as potential sources of industrial copper in FY 21-22. The inspection did not find copper related threats of illicit discharges or violations.

Section 15 -Provision C.15 Exempted and Conditionally Exempted Discharges

C.15.b.vi.(2) ► Irrigation Water, Landscape Irrigation, and Lawn or Garden Watering

Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:

- Promote conservation programs
- Promote outreach for less toxic pest control and landscape management
- Promote use of drought tolerant and native vegetation
- Promote outreach messages to encourage appropriate watering/irrigation practices
- Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff.

Summary:

The City of Berkeley posts water efficiency, IPM, drought tolerant and native vegetation, and Bay Friendly Landscaping information on its website at: [Water Efficient Landscape – City of Berkeley, California \(https://berkeleyca.gov/construction-development/permits-design-parameters/design-parameters/green-building-requirements\)](https://berkeleyca.gov/construction-development/permits-design-parameters/design-parameters/green-building-requirements).

The Environmental Health Division maintains a webpage dedicated to promoting the City's Integrated Pest Management (IPM) Policy. Please refer to the C.3 – New Development and Redevelopment, C.7 – Public Information and Outreach, and C.9 – Pesticide Toxicity Control sections of the ACCWP's FY 21-22 Annual Report for summaries of additional activities. The City's Illicit Discharge Detection and Elimination (IDDE) program responds to complaints of large volume irrigation runoff.

APPENDIX A

NARRATIVE DISCUSSIONS

2015 BLAKE STREET PROJECT
2015 BLAKE STREET, BERKELEY, CA
Narrative Discussion of Low Impact Development Feasibility/Infeasibility

This report provides a narrative discussion of the feasibility or infeasibility of providing 100 percent low impact development (LID) treatment for the 2015 Blake Street Project, consisting of 3-story and 7-story residential buildings with 174 dwelling units, which has been identified as a potential Special Project, based on Special Project criteria provided in Provision C.3.e.ii of the Municipal Regional Stormwater Permit (MRP). This report is prepared in accordance with the requirement in MRP Provision C.3.e.vi.(2), to include in Special Projects reporting a narrative discussion of the feasibility or infeasibility of 100 percent LID treatment onsite or offsite.

1. Feasibility/Infeasibility of Onsite LID Treatment

The proposed project at 2015 Blake Street in Berkeley will utilize LID Reduction Credits. The proposed project maximizes square footage of residential floor area within the lot size with living units (making use of state project density bonus) and a below grade parking structure. Due to the footprint of the garage the layout does not provide adequate landscaping area for treating impervious runoff with 100% LID due to infeasibility of infiltration.

The Project meets all 3 conditions of Special Project Category "C" of the Alameda County Special Project Determination as shown on the Special Projects Worksheet. The Project is located within 1/2 mile of a transit hub, the density is greater than 100 dwelling units per acre and less than 10% of the surface area is surface parking. 65% credit of LID reduction is allowed, all of which is being requested for this project. 65% of the stormwater runoff will be treated by a TAPE certified media filter (Contech, or equal). The remaining 35% of the runoff will be treated with LID measures.

2. Feasibility/Infeasibility of Off-Site LID Treatment.

The possibility of providing off-site LID treatment was found to be infeasible because the project proponent does not own or otherwise control land within the same watershed of the project that can accommodate in perpetuity off-site bioretention facilities adequately sized to treat the runoff volume of the primary project. Also, it is our understanding there are currently no regional projects to direct in-lieu fees in Berkeley.

3. Feasibility/Infeasibility of a combination of On-Site/Off-Site LID Treatment/In-Lieu Fees.

As stated in item #1 above, it is feasible to provide some LID treatment on this project, but not 100% LID. Overall, 35% of the project site impervious surface area will be subject to LID treatment. Per item #2 above, offsite LID treatment/in-lieu fees are infeasible for this project.

2099 MLK PROJECT
2099 MARTIN LUTHER KING JR. WAY, BERKELEY, CA
Narrative Discussion of Low Impact Development Feasibility/Infeasibility

This report provides a narrative discussion of the feasibility or infeasibility of providing 100 percent low impact development (LID) treatment for the 2099 MLK Project, a new 7-story, Mixed-Use building with 72 dwelling units, which has been identified as a potential Special Project, based on Special Project criteria provided in Provision C.3.e.ii of the Municipal Regional Stormwater Permit (MRP). This report is prepared in accordance with the requirement in MRP Provision C.3.e.vi.(2), to include in Special Projects reporting a narrative discussion of the feasibility or infeasibility of 100 percent LID treatment onsite or offsite.

The Project meets all 4 conditions of Special Project Category "A" of the Alameda County Special Project Determination as shown on the Special Projects Worksheet. 100% credit of LID reduction is allowed, of which 38% is being requested for this project. The 38% of non-LID stormwater runoff will be treated by a TAPE certified media filter (Contech, or equal).

1. Feasibility/Infeasibility of Onsite LID Treatment

The project building footprint comprises 96% of the overall project site; the vast majority of the site is the project roof and 2nd floor podium courtyard; 91% is impervious roof and pavement & 5% is pervious landscaping. The remaining 4% of the project site is mandatory access ingress & egress walkways adjacent to the building. As a result, there is inadequate size and space to accommodate a biotreatment facility that meets the sizing requirements for the tributary area on-site. It is therefore infeasible for this project to treat 100% of the C.3.d amount of runoff with LID treatment.

Three 2nd floor podium level vegetated planter biotreatment facilities, totaling 291 square feet, will be able to treat approximately 7,010 square feet (62%) of the project roof. The stormwater runoff from the remaining roof and 2nd floor podium areas (4,572 square feet – 38%) will be collected and conveyed to a Contech Stormfilter unit, or equal, which utilizes filtering media to treat the stormwater runoff before being conveyed to the City of Berkeley storm drain system in Martin Luther King Jr. Way. The Contech Stormfilter unit is TAPE certified for use in Alameda County.

2. Feasibility/Infeasibility of Off-Site LID Treatment.

The possibility of providing off-site LID treatment was found to be infeasible because the project proponent does not own or otherwise control land within the same watershed of the project that can accommodate in perpetuity off-site bioretention facilities adequately sized to treat the runoff volume of the primary project.

3. Feasibility/Infeasibility of a combination of On-Site/Off-Site LID Treatment/In-Lieu Fees.

Per item 2 above, since the project proponent does not own or otherwise control land within the same watershed of the project, it is also infeasible to provide a combination of on-site/off-site LID Treatment/In-Lieu fees for this project.

APPENDIX B

FACILITIES LIST – COMMERCIAL & INDUSTRIAL

Record ID	Facility ID	Name	Site Address	City	Program/Element
PR0002091	FA0000208	TAKARA SAKE USA, INC.	708 Addison ST	BERKELEY	SW02 - STORMWATER
PR0002088	FA0000148	McKevitt Chrysler Dodge Jeep Ram Fiat	2700 SHATTUCK AVE	BERKELEY	SW02 - STORMWATER
PR0002087	FA0000497	CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC	808 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002086	FA0000820	BUSD/TRANSPORTATION DEPARTMENT	1314 Seventh ST	BERKELEY	SW02 - STORMWATER
PR0002085	FA0000036	BERKELEY FORGE & TOOL INC.	1331 Eastshore HWY	BERKELEY	SW02 - STORMWATER
PR0002084	FA0000637	BERKELEY BOWL PRODUCE INC.	2020 Oregon ST	BERKELEY	SW02 - STORMWATER
PR0002083	FA0000394	BELFIORE CHEESE CO.	2031 2nd St	Berkeley	SW02 - STORMWATER
PR0002082	FA0000004	ALL IMPORT AUTO SALVAGE	1507 Second ST	BERKELEY	SW02 - STORMWATER
PR0002081	FA0000945	Fix Auto Berkeley	3033 San Pablo AVE	Berkeley	SW02 - STORMWATER
PR0002129	FA0000823	TOMAS SPORT TUNING	1453 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002127	FA0000328	SAINT HIERONYMUS PRESS, INC.	1703 Martin Luther King, Jr. WAY	BERKELEY	SW02 - STORMWATER
PR0002124	FA0000174	PC Cargo Inc.	2424 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002123	FA0000033	NUMBER ONE GAS	1900 Martin Luther King, Jr. WAY	Berkeley	SW02 - STORMWATER
PR0002122	FA0000582	LIFELONG DENTAL CARE	1860 Alcatraz AVE	BERKELEY	SW02 - STORMWATER
PR0002121	FA0000141	LAURENCE ANDERSON CO.	1214 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002120	FA0000902	KOEHLER AUTO BODY, INC.	1712 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002119	FA0000457	KEITH CHERTOK, DDS	2620 Ashby ST STE 101	BERKELEY	SW02 - STORMWATER
PR0002118	FA0000123	HUSTEADS AUTO BODY.	2037 Durant AVE	BERKELEY	SW02 - STORMWATER
PR0002117	FA0000104	GILMAN AUTO	1197 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002116	FA0000789	ERIC POWELL ARTS	1401A Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002114	FA0000285	DAN CHIN AUTO SERVICE	2558 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002113	FA0000070	CLAREMONT CHEVRON STATION #0289	3048 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002112	FA0000347	CITY OF BERKELEY- PUBLIC SAFETY BUILDING	2100 Martin Luther King, Jr. WAY	BERKELEY	SW02 - STORMWATER
PR0002111	FA0000310	City of Berkeley Marina	201 University AVE	Berkeley	SW02 - STORMWATER
PR0002110	FA0000316	CITY OF BERKELEY FIRESTATION #3	2710 Russell ST	BERKELEY	SW02 - STORMWATER
PR0002109	FA0000538	CITY OF BERKELEY FIRE DEPARTMENT DIVISION OF TRAINING	997 Cedar ST	BERKELEY	SW02 - STORMWATER
PR0002108	FA0000068	CAR CRAFT COLLISION SPECIALISTS	2356 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002107	FA0000389	CAMPUS VETERINARY CLINIC	1807 Martin Luther King, Jr. WAY	BERKELEY	SW02 - STORMWATER
PR0002106	FA0000344	KING POOL	1700 Hopkins St	BERKELEY	SW02 - STORMWATER
PR0002105	FA0000047	BERKELEY RADIATOR WORKS DBA BERKELEY RADIATOR INC.	2732 San Pablo AVE	BERKELEY	SW02 - STORMWATER

PR0002104	FA0000545	BERKELEY NATURAL GROCERY	1336 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002103	FA0000469	CITY OF BERKELEY FIRESTATION #7	3000 Shasta RD	BERKELEY	SW02 - STORMWATER
PR0002102	FA0000032	BERKELEY AUTO BODY, INC.	1829 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002100	FA0000026	BAVARIAN PROFESSIONALS INC.	1218 Seventh ST	BERKELEY	SW02 - STORMWATER
PR0002099	FA0000548	BANCROFT WAY LLC	600-630 Bancroft WAY	BERKELEY	SW02 - STORMWATER
PR0002097	FA0000501	ALLIED BODY AND FRAME SHOP	1375 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002096	FA0000691	ACKERMAN'S SERVICING VOLVOS	2220 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002095	FA0000688	2600 TENTH STREET, LLC	2600 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002543	FA0000235	YEN'S AUTO SERVICES	1299 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002542	FA0000320	XTRA OIL CO - SHATTUCK DBA CHEVRON	2996 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002541	FA0000232	XTRA OIL CO.- THE ALAMEDA DBA CHEVRON	1201 The Alameda	BERKELEY	SW02 - STORMWATER
PR0002540	FA0000233	XTRA OIL COMPANY DBA CHEVRON	1399 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002539	FA0000231	Rodan & Fields LLC 804 Heinz	804 Heinz AVE	BERKELEY	SW02 - STORMWATER
PR0002534	FA0000997	Whole Foods Market - Gilman	1025 Gilman St	Berkeley	SW02 - STORMWATER
PR0002533	FA0000617	Whole Foods Market - Berkeley	3000 Telegraph AVE	BERKELEY	SW02 - STORMWATER
PR0002532	FA0000341	WESTERN DENTAL SERVICES, INC	115 Berkeley SQ	BERKELEY	SW02 - STORMWATER
PR0002531	FA0000225	WEST CAMPUS SWIM CENTER	2100 Browning ST	BERKELEY	SW02 - STORMWATER
PR0002530	FA0000224	WELDING EQUIP. SERVICE COMPANY	1228 Sixth ST	BERKELEY	SW02 - STORMWATER
PR0002529	FA0000223	WEATHERFORD BMW	735 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002528	FA0000937	WAREHAM PROPERTIES	725 Potter ST	BERKELEY	SW02 - STORMWATER
PR0002527	FA0000935	WAREHAM PROPERTIES	2929 Seventh ST	BERKELEY	SW02 - STORMWATER
PR0002526	FA0000558	Wareham Development	820 Heinz Ave	Berkeley	SW02 - STORMWATER
PR0002525	FA0000222	WALTER MORK CO., INC.	2418 Sixth ST	BERKELEY	SW02 - STORMWATER
PR0002524	FA0000221	Walsh Brothers Inc	1060 Harrison St	Berkeley	SW02 - STORMWATER
PR0002523	FA0000411	WALGREENS #4614	2801 Adeline ST	BERKELEY	SW02 - STORMWATER
PR0002521	FA0000416	WALGREENS #2314	1050 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002520	FA0000897	Walgreens #15025	2190 Shattuck Ave	Berkeley	SW02 - STORMWATER
PR0002518	FA0000540	Verizon Wireless UC Berkeley East	Barrows Hall UC Berkeley	Berkeley	SW02 - STORMWATER
PR0002517	FA0000547	Verizon Wireless Oakland West (Berkeley)	1010 Heinz Ave	Berkeley	SW02 - STORMWATER
PR0002516	FA0000971	Verizon Wireless Gilman Street	1050 Gilman St	Berkeley	SW02 - STORMWATER

PR0002515	FA0000563	Verizon Wireless Kensington Circle	1760 Solano Ave	Berkeley	SW02 - STORMWATER
PR0002514	FA0000690	Verizon Wireless Adeline MLK	3332 Adeline St	Berkeley	SW02 - STORMWATER
PR0002513	FA0000786	URBAN ORE, INC.	900 Murray ST	BERKELEY	SW02 - STORMWATER
PR0002512	FA0000351	UNIVERSITY VALERO # 7200	1894 University AVE	BERKELEY	SW02 - STORMWATER
PR0002511	FA0000795	UNIVERSITY SHELL #100	1250 University AVE	BERKELEY	SW02 - STORMWATER
PR0002510	FA0000169	UNIVERSITY ONE HOUR MARTINIZING	1319 University AVE	BERKELEY	SW02 - STORMWATER
PR0002509	FA0000353	UNIVERSITY CHEVRON #90877	1500 University AVE	BERKELEY	SW02 - STORMWATER
PR0002508	FA0000608	UNITED ARTISTS BERKELEY 7 THEATRE	2274 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002507	FA0000741	United #5616	1830 Solano AVE	BERKELEY	SW02 - STORMWATER
PR0002505	FA0000043	TTI, INC. DBA CLEARFLOW VALVES, INC.	631 Camelia ST	BERKELEY	SW02 - STORMWATER
PR0002504	FA0000635	TRUITT & WHITE LUMBER	642 Hearst AVE	BERKELEY	SW02 - STORMWATER
PR0002502	FA0001082	Trillium USA Company LLC #94710-1	1101 2nd St	Berkeley	SW02 - STORMWATER
PR0002501	FA0000357	TPMG Regional Laboratory (Kaiser)	1725 Eastshore HWY	BERKELEY	SW02 - STORMWATER
PR0002500	FA0000652	TOYOTA OF BERKELEY-DETAIL SHOP	2112 Durant AVE	BERKELEY	SW02 - STORMWATER
PR0002499	FA0000216	TOYOTA OF BERKELEY	2400 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002498	FA0000187	TIPPETT STUDIO INC.	914 Grayson ST	BERKELEY	SW02 - STORMWATER
PR0002497	FA0000653	TIPPETT STUDIO INC.	2741 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002495	FA0000962	THE RARE BARREL	940 Parker ST	BERKELEY	SW02 - STORMWATER
PR0002494	FA0000713	THE PROFESSIONAL TREE CARE COMPANY	830 Grayson ST	BERKELEY	SW02 - STORMWATER
PR0002493	FA0000211	THE MODEL GARAGE INC.	2920 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002491	FA0000319	THE ED JONES COMPANY INC.	2834 Eighth ST	BERKELEY	SW02 - STORMWATER
PR0002490	FA0000838	THE BUSLAB	3407 Adeline ST	BERKELEY	SW02 - STORMWATER
PR0002489	FA0000209	TERMINAL MANUFACTURING CO. LLC	707 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002488	FA0000529	TECHNICAL SAFETY SERVICES	620 Hearst AVE	BERKELEY	SW02 - STORMWATER
PR0002487	FA0001009	Target Store T3202	2187 Shattuck Ave	Berkeley	SW02 - STORMWATER
PR0002486	FA0000427	SUN LIGHT AND POWER	1035 Folger ST	BERKELEY	SW02 - STORMWATER
PR0002485	FA0000431	STEVENSON RESTORATIONS	1523 fourth ST	BERKELEY	SW02 - STORMWATER
PR0002482	FA0000606	SOLAR CAR WASH	2434 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002481	FA0000373	SINGH, ROEDER, LIU & STARK, DDS	914 The Alameda	BERKELEY	SW02 - STORMWATER
PR0002480	FA0000436	SIEMENS HEALTHCARE DIAGNOSTICS	725 Potter ST	BERKELEY	SW02 - STORMWATER

PR0002479	FA0000746	SHERWIN-WILLIAMS #8621	3131 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002478	FA0000203	SAN PABLO MINI-MART	1580 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002477	FA0000508	SAN PABLO EUROPEAN	1519 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002476	FA0000599	SAMJUNG CORP. DBA VIRGINIA CLEANERS	1650 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002475	FA0000453	Safeway 0691	1444 Shattuck PL	Berkeley	SW02 - STORMWATER
PR0002474	FA0000489	RED-D-ARC INC.	635 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002473	FA0000383	RECREATIONAL EQUIPMENT INC. REI	1338 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002471	FA0000828	Berkeley Auto Care	2734 Telegraph AVE	BERKELEY	SW02 - STORMWATER
PR0002470	FA0000793	Propel Fuels, Inc. (202018)	849 University AVE STE B	Berkeley	SW02 - STORMWATER
PR0002469	FA0000194	PREMIER AUTO BODY	1911 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002468	FA0000192	PRECISION PEOPLES CAR REPAIR, INC.	1346 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002467	FA0000967	POWIS PARKER, INC.	2929 Sixth ST	BERKELEY	SW02 - STORMWATER
PR0002465	FA0000190	PolyPlus Battery Company	2431 Fifth ST STE B	BERKELEY	SW02 - STORMWATER
PR0002463	FA0000188	PHOTOLAB	2235 Fifth ST	BERKELEY	SW02 - STORMWATER
PR0002462	FA0000892	PETS Referral Center	1048 University AVE	BERKELEY	SW02 - STORMWATER
PR0002461	FA0000186	PETER'S AUTOMOTIVE SERVICE	1745 Cedar ST	BERKELEY	SW02 - STORMWATER
PR0002460	FA0000586	BERKELEY PERFORMANCE MOTORCYCLE	741 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002459	FA0000882	Mike's Bikes	1824 University AVE	BERKELEY	SW02 - STORMWATER
PR0002458	FA0000322	PATTI'S AUTO CARE	2285 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002457	FA0000183	PATRICK OTTIS CO.	1220 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002456	FA0000181	PANEL CRAFT AUTO	2828 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002454	FA0000179	PG&E: Stuart Substation	2016 Stuart ST	Berkeley	SW02 - STORMWATER
PR0002453	FA0000178	PG&E: Spruce Substation	557 Vistamont AVE	Berkeley	SW02 - STORMWATER
PR0002452	FA0000177	PG&E: Russell Substation	2920 Sacramento ST	Berkeley	SW02 - STORMWATER
PR0002451	FA0000176	PG&E: Ridge Substation	1313 Glendale AVE	Berkeley	SW02 - STORMWATER
PR0002450	FA0000175	PG&E: Arlington Substation	1989 El Dorado AVE	Berkeley	SW02 - STORMWATER
PR0002449	FA0000375	PG&E: Berkeley "T" Substation	2540 Telegraph AVE	Berkeley	SW02 - STORMWATER
PR0002448	FA0000388	PG&E: Berkeley "F" Substation	1900 McGee ST	Berkeley	SW02 - STORMWATER
PR0002447	FA0000711	Outfront Media	1695 Eastshore HWY	BERKELEY	SW02 - STORMWATER
PR0002446	FA0000286	OUTDOOR SUPPLY HARDWARE # 6501		BERKELEY	SW02 - STORMWATER

PR0002445	FA0000167	OLIVERIA ENGINEERING	732 Channing WAY	BERKELEY	SW02 - STORMWATER
PR0002444	FA0000166	OIL CHANGERS #403	2246 San Pablo AVE	Berkeley	SW02 - STORMWATER
PR0002443	FA0000164	OCEANWORKS, INC.	2703 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002442	FA0000165	OCEANWORKS II	1030 Carleton ST	BERKELEY	SW02 - STORMWATER
PR0002441	FA0000632	OAK BARREL WINECRAFT	1443 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002440	FA0000163	O.C. JONES & SONS, INC.	1520 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002439	FA0000480	NORMAN RACING GROUP	1221 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002438	FA0000942	NATE'S GREEN GARAGE	1809 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002437	FA0000739	ARTWORKS FOUNDRY LLC	729 Heinz AVE STE 10	BERKELEY	SW02 - STORMWATER
PR0002436	FA0000158	MOTOR CITY AUTOMOTIVE	3058 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002435	FA0000549	MORAN MOTORSPORT INC.	751 Folger AVE	BERKELEY	SW02 - STORMWATER
PR0002434	FA0000157	MONSEN SILVERSMITHS	3370 Adeline St	Berkeley	SW02 - STORMWATER
PR0002432	FA0000747	MINUTEMAN PRESS	1101 Fifth ST	BERKELEY	SW02 - STORMWATER
PR0002430	FA0001012	MIKE'S AUTO SERVICE	1699 University AVE	BERKELEY	SW02 - STORMWATER
PR0002427	FA0000928	MEYER SOUND LABORATORIES INC.	2817 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002426	FA0000929	MEYER SOUND LABORATORIES INC.	2976 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002425	FA0000832	METRO LIGHTING	2240 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002424	FA0000152	MERCURIO BROS. PRINTING	2830 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002423	FA0000130	MC LLC DBA JIFFY LUBE #889	960 University AVE	BERKELEY	SW02 - STORMWATER
PR0002422	FA0000326	MACBEATH HARDWOOD COMPANY	930 Ashby ST	BERKELEY	SW02 - STORMWATER
PR0002421	FA0000041	M AND M GARAGE	1505 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002419	FA0000968	LOOKING GLASS	1045 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002417	FA0000144	LIBBY LABORATORIES, INC.	1700 Sixth ST	BERKELEY	SW02 - STORMWATER
PR0002416	FA0000138	L. J. KRUSE CO.	920 Pardee ST	BERKELEY	SW02 - STORMWATER
PR0002415	FA0000539	KEAR RADIO	601 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002413	FA0000135	KALA ART INSTITUTE	1060 Heinz AVE	BERKELEY	SW02 - STORMWATER
PR0002412	FA0000850	KAISER PERMANENTE DIVISION OF RESEARCH	1795A Second ST	BERKELEY	SW02 - STORMWATER
PR0002411	FA0000134	KAISER MFG FOUNDATION HOSPITALS (CONST.-1780 2ND ST)	1780 Second ST	BERKELEY	SW02 - STORMWATER
PR0002409	FA0000842	JUPITER LLC	2181 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002408	FA0000543	JOE'S TIRES	1865 University AVE	BERKELEY	SW02 - STORMWATER

PR0002403	FA0000791	INSPECTION SERVICES INC	1798 University AVE	BERKELEY	SW02 - STORMWATER
PR0002402	FA0000521	All Natural Stone Berkeley	611 Hearst Ave	Berkeley	SW02 - STORMWATER
PR0002401	FA0001019	Husteads Auto Body	1348 Seventh ST	BERKELEY	SW02 - STORMWATER
PR0002399	FA0001013	HOWLETT MACHINE WORKS, INC.	746 Folger AVE	BERKELEY	SW02 - STORMWATER
PR0002398	FA0000771	HOTEL SHATTUCK PLAZA	2086 Allston WAY	BERKELEY	SW02 - STORMWATER
PR0002397	FA0000121	APRO Distribution 2204	901 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002396	FA0000120	HOLLAND SERVICE	2203 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002395	FA0000055	Herc Rentals Inc (9747-00)	1475 Eastshore HWY	BERKELEY	SW02 - STORMWATER
PR0002394	FA0000330	HENRY CHIN AUTO CARE	2132 Dwight WAY	BERKELEY	SW02 - STORMWATER
PR0002393	FA0000116	HENRY BASURTO'S SERVICE	1321 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002392	FA0000159	Henkel - Berkeley	800 Grayson St	Berkeley	SW02 - STORMWATER
PR0002390	FA0000081	HATHAWAY DINWIDDIE CONST. CO.	1201 Eighth ST	BERKELEY	SW02 - STORMWATER
PR0002389	FA0000114	HASSELGREN RACING ENGINES	1221 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002388	FA0000048	HANSON AGGREGATES DBA BERKELEY ASPHALT	699 Virginia ST	BERKELEY	SW02 - STORMWATER
PR0002387	FA0000112	H & B INC.	2300 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002386	FA0000891	GRIFFIN MOTORWERKE, INC.	1146 Sixth ST	BERKELEY	SW02 - STORMWATER
PR0002385	FA0000110	GRAYSIX COMPANY	2427 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002384	FA0000109	GRANDMA'S GARAGE	821 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002383	FA0000605	GIVENS & ZWEBEN (SOLAR CAR WASH)	1198 University AVE	BERKELEY	SW02 - STORMWATER
PR0002382	FA0000100	GENERAL TRANSMISSIONS	1187 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002381	FA0000098	FRANK'S ENGINEERING CLINIC	1245 University AVE	BERKELEY	SW02 - STORMWATER
PR0002380	FA0000094	FLAMINGO CLEANERS	1935 Martin Luther King, Jr. WAY	BERKELEY	SW02 - STORMWATER
PR0002379	FA0000982	Fire Cause Analysis	935 Pardee ST	BERKELEY	SW02 - STORMWATER
PR0002378	FA0000092	15 Minute Smog Test	2598 Sacramento ST	BERKELEY	SW02 - STORMWATER
PR0002377	FA0000980	Fieldwork Brewing Company	1160 Sixth St	BERKELEY	SW02 - STORMWATER
PR0002375	FA0000090	EUROPA CARS	835 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002373	FA0000088	EPIFANI RESTORATIONS	1216 Fifth ST	BERKELEY	SW02 - STORMWATER
PR0002371	FA0000825	ELMWOOD NURSING & REHAB	2829 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002370	FA0000995	Elements Petroleum, Inc.	833 University Ave	Berkeley	SW02 - STORMWATER
PR0002369	FA0000087	ELECTRO-COATINGS OF CALIFORNIA INC	893 Carleton ST	BERKELEY	SW02 - STORMWATER

PR0002367	FA0000046	Kirby Berkeley	950 University AVE	BERKELEY	SW02 - STORMWATER
PR0002365	FA0000381	EBMUD -PUMP STATION Q	1451 Second St	BERKELEY	SW02 - STORMWATER
PR0002364	FA0000410	EBMUD CLAREMONT CENTER	44 Roble CT	BERKELEY	SW02 - STORMWATER
PR0002362	FA0000400	DTSC-HAZARDOUS MATERIALS LAB	700 Heinz AVE STE 100	BERKELEY	SW02 - STORMWATER
PR0002360	FA0000051	BERKELEY YMCA	2001 Allston WAY	BERKELEY	SW02 - STORMWATER
PR0002359	FA0000969	DOUBLETREE HOTEL & EXECUTIVE MEETING CENTER	200 Marina BLVD	BERKELEY	SW02 - STORMWATER
PR0002358	FA0000629	DON'S TIRE SERVICE, INC.	820 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002356	FA0000901	Dollar Tree #04885	1284 San Pablo AVE	Berkeley	SW02 - STORMWATER
PR0002355	FA0000776	DIRECT LINE TELERESPONSE	2847 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002354	FA0000040	DELTAN DIVERSIFIED INC.- CHEVRON STATION #91745	1300 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002353	FA0000797	DAVLIN COATINGS LLC	700 Allston WAY	BERKELEY	SW02 - STORMWATER
PR0002352	FA0000875	DAVID BROTHERS	845 Carleton ST	BERKELEY	SW02 - STORMWATER
PR0002351	FA0000493	University Valero-Berkeley	849 University AVE	BERKELEY	SW02 - STORMWATER
PR0002350	FA0000077	DANIEL DOLE, ARTIST BLACKSMITH	1101 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002349	FA0000751	CVS Pharmacy #9941	1451 Shattuck Ave	Berkeley	SW02 - STORMWATER
PR0002348	FA0000769	CVS Pharmacy #3026	2300 Shattuck Ave	Berkeley	SW02 - STORMWATER
PR0002347	FA0000961	CVS Pharmacy #10121	2655 Telegraph Ave	Berkeley	SW02 - STORMWATER
PR0002346	FA0000074	ENTHALPY ANALYTICAL LLC	2323 Fifth ST	BERKELEY	SW02 - STORMWATER
PR0002345	FA0000073	CROWN HEATING & SHEET METAL INC.	739 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002344	FA0000966	COVENANT	1102 Sixth ST	BERKELEY	SW02 - STORMWATER
PR0002343	FA0000321	COOPER AND HAWKINS INC.	2701 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002342	FA0000306	Caliber Bodyworks Inc. dba Caliber Collision Centers - Berkeley	2935 Claremont Ave	Berkeley	SW02 - STORMWATER
PR0002341	FA0000337	CONSOLIDATED PRINTERS, INC.	2630 Eighth ST	BERKELEY	SW02 - STORMWATER
PR0002340	FA0000571	COMMUNITY CONSERVATION CENTERS INC	669 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002339	FA0000468	COMEBACK BREWING II, INC. DBA TRUMER BRAUEREI INC.	1404 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002338	FA0000533	COE STUDIOS LLC	1214 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002337	FA0000042	G & C Auto Body - Berkeley	1239 Fifth ST	BERKELEY	SW02 - STORMWATER
PR0002336	FA0000312	City of Berkeley Transfer Station	1201 Second ST	Berkeley	SW02 - STORMWATER
PR0002335	FA0000740	City of Berkeley - Corporation Yard	1326 Allston Way	Berkeley	SW02 - STORMWATER
PR0002334	FA0000413	City of Berkeley Civic Center	2180 Milvia ST	Berkeley	SW02 - STORMWATER

PR0002333	FA0000317	CITY OF BERKELEY FIRESTATION #5	2680 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002332	FA0000282	CITY OF BERKELEY FIRESTATION #4	1900 Marin AVE	BERKELEY	SW02 - STORMWATER
PR0002331	FA0000315	CITY OF BERKELEY FIRESTATION #2	2029 Berkeley WAY	BERKELEY	SW02 - STORMWATER
PR0002330	FA0000314	CITY OF BERKELEY FIRESTATION #1	2442 Eighth ST	BERKELEY	SW02 - STORMWATER
PR0002329	FA0000852	CITY OF BERKELEY FIRE WAREHOUSE	1011 Folger AVE	BERKELEY	SW02 - STORMWATER
PR0002328	FA0000422	City of Berkeley Central Library	2031 Bancroft Way	Berkeley	SW02 - STORMWATER
PR0002326	FA0000066	CAMPUS MINIMART	2200 Durant AVE	BERKELEY	SW02 - STORMWATER
PR0002323	FA0000283	BUSD-PLANT OPERATIONS	1707 Russell ST	BERKELEY	SW02 - STORMWATER
PR0002322	FA0000372	BRUCE T. TRAN, DDS	2975 Telegraph AVE	BERKELEY	SW02 - STORMWATER
PR0002321	FA0000059	BRIDGEWAY SERVICE INC.	3009 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002319	FA0000057	BOB'S VOLVO TOYOTA SPECIALISTS	2705 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002318	FA0000056	BOB MCGEE'S MACHINING CO., INC	2735 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002316	FA0000736	BIOFUEL OASIS COOPERATIVE, INC.	1441 Asbhy AVE	BERKELEY	SW02 - STORMWATER
PR0002315	FA0000840	BIG O TIRES #5259	2625 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002313	FA0000253	BEST EQUIPMENT CO., LLC	3101 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002312	FA0000518	BERKELEY WRIGHT'S AUTOMOTIVE SERVICE INC	1425 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002308	FA0000831	BERKELEY REPERTORY THEATRE - WEST CAMPUS	999 Harrison ST	BERKELEY	SW02 - STORMWATER
PR0002307	FA0000049	BERKELEY REPERTORY THEATRE	2025 Addison ST	BERKELEY	SW02 - STORMWATER
PR0002306	FA0000397	BERKELEY PLUMBING & HEATING CO. INC.	2160 Dwight WAY	BERKELEY	SW02 - STORMWATER
PR0002305	FA0000039	BERKELEY MINI CAR	2498 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002304	FA0000432	BERKELEY MARINE CENTER, INC.	1 Spinnaker WAY	BERKELEY	SW02 - STORMWATER
PR0002302	FA0001005	Berkeley Gas & Smog	3000 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002301	FA0000401	BERKELEY DOG & CAT HOSPITAL	2126 Haste ST	BERKELEY	SW02 - STORMWATER
PR0002300	FA0000983	BERKELEY DIALYSIS / DAVITA INC.	2655 Shattuck AVE	BERKELEY	SW02 - STORMWATER
PR0002299	FA0000884	BERKELEY COURTHOUSE Judicial Council of California, #01-G1	2120 Martin Luther King, Jr. WAY	BERKELEY	SW02 - STORMWATER
PR0002298	FA0000654	Berkeley City College	2050 Center St	Berkeley	SW02 - STORMWATER
PR0002297	FA0000872	BERKELEY CITY CLUB	2315 Durant AVE	BERKELEY	SW02 - STORMWATER
PR0002296	FA0000959	Berkeley Chevron	2996 Telegraph Ave	Berkeley	SW02 - STORMWATER
PR0002295	FA0000943	BERKELEY CENTRAL	2055 Center ST	BERKELEY	SW02 - STORMWATER
PR0002294	FA0000035	BERKELEY CEMENT INC.	1200 Sixth ST	BERKELEY	SW02 - STORMWATER

PR0002292	FA0000021	BERKELEY AUTOMETRICS INC.	1340 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002291	FA0000446	BERKELEY AUTO SERVICE	2809 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002290	FA0000965	BERKELEY AUTO REPAIR	2226 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002289	FA0000976	BAYLINE CONCRETE CUTTING AND CORING	1635 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002288	FA0000029	BAYER US LLC	800 Dwight Way	Berkeley	SW02 - STORMWATER
PR0002287	FA0000027	BAY MOTOR SPORTS INC.	735 Gilman ST	BERKELEY	SW02 - STORMWATER
PR0002286	FA0000382	FELLOW'S AUTO REPAIR	1790 University AVE	BERKELEY	SW02 - STORMWATER
PR0002284	FA0000712	AVS SPECIALISTS, INC.	2501 Tenth ST	BERKELEY	SW02 - STORMWATER
PR0002283	FA0000885	AVENUE BERKELEY TOWING AND STORAGE	625 Cedar ST	BERKELEY	SW02 - STORMWATER
PR0002282	FA0000502	AUTUMN PRESS, INC.	945 Camelia ST	BERKELEY	SW02 - STORMWATER
PR0002281	FA0000019	AUTO OPTIONS	1445 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002280	FA0000313	AUTO ALPINA	1499 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002277	FA0000173	AT&T California - Q2002	2116 Bancroft Way	Berkeley	SW02 - STORMWATER
PR0002276	FA0000385	ASHBY PLUMBING & HEATING SUPPLY	1000 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002275	FA0000638	ASHBY LUMBER COMPANY	824 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002274	FA0000013	ART'S AUTOMOTIVE	2871 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002273	FA0000278	Daniel Chen DDS, INC.	2930 Martin Luther King, Jr. WAY	BERKELEY	SW02 - STORMWATER
PR0002272	FA0000865	Andronicos 2451	1850 Solano AVE	BERKELEY	SW02 - STORMWATER
PR0002271	FA0000864	Andronicos 2453	1550 Shattuckl AVE	BERKELEY	SW02 - STORMWATER
PR0002269	FA0000008	ALTERNATORS UNLIMITED	1464 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002268	FA0000007	ALTA BATES SUMMIT MEDICAL CENTER-ALTA BATES CAMPUS	2450 Ashby AVE	BERKELEY	SW02 - STORMWATER
PR0002267	FA0000117	ALTA BATES -HERRICK HOSPITAL	2001 Dwight WAY	BERKELEY	SW02 - STORMWATER
PR0002266	FA0000855	ALOHA PEDIATRIC DENTISTRY	2640 Telegraph AVE Ste 101	BERKELEY	SW02 - STORMWATER
PR0002265	FA0000861	Airgas USA, LLC - Berkeley TA	1224 Sixth ST	Berkeley	SW02 - STORMWATER
PR0002264	FA0000754	ALLIANCE GRAPHICS	1101 Eighth ST	BERKELEY	SW02 - STORMWATER
PR0002263	FA0000887	ALL POWER LABS	1010 Murray ST	BERKELEY	SW02 - STORMWATER
PR0002260	FA0000002	ADAMS & CHITTENDEN SCIENTIFIC GLASS	2741 Eighth ST	BERKELEY	SW02 - STORMWATER
PR0002259	FA0000899	99 Cents Only Stores #289	1941 San Pablo AVE	Berkeley	SW02 - STORMWATER
PR0002258	FA0000977	7-ELEVEN INC #18855	1501 University Ave	BERKELEY	SW02 - STORMWATER
PR0002257	FA0000978	7-ELEVEN INC. STORE #17582	2601 Telegraph Ave	Berkeley	SW02 - STORMWATER

PR0002256	FA0000979	7-ELEVEN STORE #16192	2887 College Ave	Berkeley	SW02 - STORMWATER
PR0002254	FA0000241	101 AUTO BODY	1223 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PROA75OUF	FA0001033	Kyakameena Care Center	2131 Carleton St	Berkeley	SW02 - STORMWATER
PRO4WFXUA	FA0001106	Caribou Biosciences, Inc.	2929 Seventh ST STE 105	Berkeley	SW02 - STORMWATER
PRRWHF0YL	FA0001084	STEAMWORKS	2107 4th St	Berkeley	SW02 - STORMWATER
PRP0TXEZG	FA0001146	Flying Moose Manufacturing LLC	939 Grayson St	Berkeley	SW02 - STORMWATER
PR0002697	FA0001190	BERKELEY BOWL WEST	920 Heinz Ave	Berkeley	SW02 - STORMWATER
PR0002709	FA0001188	Zephyr Tents	3045 Hollis St	Berkeley	SW02 - STORMWATER
PRW0D3QGG	FA0000758	Edward Koehn Co., Inc.	820 Folger Ave	Berkeley	SW02 - STORMWATER
PR2E4PMR5	FA0001209	BERKELEY HONDA	2777 Shattuck Ave	Berkeley	SW02 - STORMWATER
PR0002747	FA0001196	Ripple Foods, PBC	901 Gilman ST Ste A	Berkeley	SW02 - STORMWATER
PR0002762	FA0001184	Gilman Brewing Company	912 Gilman St	Berkeley	SW02 - STORMWATER
PRECK27VS	FA0001227	Berkeley Humane	2700 9th St	Berkeley	SW02 - STORMWATER
PRIKBHGAI	FA0001207	Sid's Auto	2412 6th St	Berkeley	SW02 - STORMWATER
PRFNSRSFU	FA0000034	TOYOTA OF BERKELEY BODY SHOP	2070 Second ST	BERKELEY	SW02 - STORMWATER
PRHDR1ULG	FA0000228	Wise Auto Tech	2323 San Pablo AVE	Berkeley	SW02 - STORMWATER
PRJQXXJEN	FA0001240	Viks Distributors, LLC	1321 7th St	Berkeley	SW02 - STORMWATER
PR0002798	FA0000903	TD GARAGE	2144 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PRVD65SW6	FA0000140	LABORATORY GLASS APPARATUS, INC.	1200 Fourth ST	BERKELEY	SW02 - STORMWATER
PRZXTZMYQ	FA0000729	AT&T Mobility – Zellerbach Bldg Roof (USID26483)	3813 Wadford St	Berkeley	SW02 - STORMWATER
PRDQWY0XG	FA0001150	AT&T Mobility - SACRAMENTO STREET (USID129478)	2517 Sacramento St	Berkeley	SW02 - STORMWATER
PRSCPLJV	FA0001246	WORLD PAC BERKELEY 9769	772 Gilman St	Berkeley	SW02 - STORMWATER
PRNIJZNR	FA0001027	GERMAN AUTO SPORT	2396 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002803	FA0000516	Verizon Wireless Berkeley Downtown	2199 Addison ST ROOF	Berkeley	SW02 - STORMWATER
PR0002822	FA0001256	Tesla Service Center - Berkeley	901 Gilman ST	Berkeley	SW02 - STORMWATER
PR0002829	FA0001257	Verizon Wireless:College & Dwight	2750 Dwight Way	Berkeley	SW02 - STORMWATER
PR0002847	FA0001267	KLWM Warehouse	1501 4th St	Berkeley	SW02 - STORMWATER
PRACOSSCX	FA0001287	Shell Hydrogen Fuel Station	1250 University Ave	Berkeley	SW02 - STORMWATER
PRCD1MSIM	FA0001091	Vital Vittles Bakery, Inc.	2810 San Pablo AVE	Berkeley	SW02 - STORMWATER
PRRAX8RFE	FA0001041	City of Berkeley - Flare Station	11 Spinnaker Way	Berkeley	SW02 - STORMWATER

PR3N04NTN	FA0001289	TCHO Ventures	3100 San Palbo AVE STE 170	Berkeley	SW02 - STORMWATER
PRU0GWVO9	FA0001180	7th Street Property	2910 7th St	Berkeley	SW02 - STORMWATER
PRIA88E2S	FA0001288	805 Camelia street wineries	805 Camelia St	Berkeley	SW02 - STORMWATER
PR74LCNYT	FA0001156	740 Heinz	740 Heinz Ave	Berkeley	SW02 - STORMWATER
PREN0ZH6U	FA0001138	Automatic Response Systems	1461 Eastshore Hwy	Berkeley	SW02 - STORMWATER
PRVPNGMBN	FA0001312	Wareham Development-700 Heinz	700 Heinz AVE	BERKELEY	SW02 - STORMWATER
PR0002901	FA0001244	Mosswood Distillers	2619 Seventh ST	BERKELEY	SW02 - STORMWATER
PR0002907	FA0001303	New Age Meats (Simply Foods)	1385 Ninth ST	BERKELEY	SW02 - STORMWATER
PR0002911	FA0001307	Alan Kropp & Associates	907 Camelia ST	BERKELEY	SW02 - STORMWATER
PR0002913	FA0001298	John Muir Health/UCSF Health Berkeley Outpatient Center	3100 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PRAWWQ7EO	FA0001314	Demetrix Inc	2929 Seventh ST Ste 130	BERKELEY	SW02 - STORMWATER
PR0002918	FA0001170	Donkey & Goat	1340 Fifth ST	BERKELEY	SW02 - STORMWATER
PR0002919	FA0001315	Kaiser Permanente TPMG Regional Satellite Laboratory 1795	1795 Second ST	BERKELEY	SW02 - STORMWATER
PR18RMG96	FA0000915	BRITISH AND EUROPEAN	1345 San Pablo AVE	BERKELEY	SW02 - STORMWATER
PR0002921	FA0000527	Verizon Wireless Hwy 80 University	611 Hearst Ave	Berkeley	SW02 - STORMWATER
PR0002920	FA0001157	Verizon Wireless Hwy 80 & Gilman Street	1285 Eastshore Hwy	Berkeley	SW02 - STORMWATER
PRN7XO5FF	FA0001014	Mizuki Auto	1900 MARTIN LUTHER KING JR. WAY	BERKELEY	SW02 - STORMWATER
PRKFINKIM	FA0000893	Agenus West Bldg. 890	890 Heinz AVE	BERKELEY	SW02 - STORMWATER
PRY5BBGGB	FA0001325	Mission Barns	2618 Eighth ST	BERKELEY	SW02 - STORMWATER
PR0002952	FA0001332	Pivot Bio Berkeley	2910 Seventh ST	BERKELEY	SW02 - STORMWATER
PR0002962	FA0001316	C3 Labs LLC dba Steep Hill California	2448 Sixth ST	BERKELEY	SW02 - STORMWATER
PR0002963	FA0000442	BERKELEY ADVANCED BIOMATERIALS, LLC	2800 SEVENTH ST	BERKELEY	SW02 - STORMWATER
PR0002970	FA0001340	Berkeley Medical Office	2621 Tenth ST	BERKELEY	SW02 - STORMWATER
PRNNKQMWM	FA0001247	Berkeley Wrights Automotive Service	637 Cedar St	Berkeley	SW02 - STORMWATER
PR0002975	FA0001313	Joseph Siti Woodworking	729 Heinz AVE Ste 15	BERKELEY	SW02 - STORMWATER
PR0002991	FA0001205	Target T3267	1414 University Ave	Berkeley	SW02 - STORMWATER
PR0002992	FA0001167	Argonaut Garage	1485 San Pablo AVE	Berkeley	SW02 - STORMWATER
PR0002993	FA0000860	Form Energy, Inc.	2810 Seventh ST	BERKELEY	SW02 - STORMWATER
PR0003005	FA0001333	Berkeley Outlet	711 Heinz AVE	BERKELEY	SW02 - STORMWATER
PR0003011	FA0001322	Arris Composites	710 Bancroft WAY	BERKELEY	SW02 - STORMWATER

PR0003010	FA0001362	Arris Composites	765 Heinz AVE	BERKELEY	SW02 - STORMWATER
PR0003013	FA0001334	The Standard at Berkeley	2580 Bancroft WAY	BERKELEY	SW02 - STORMWATER
PR0003012	FA0001251	Type 7 Manufacturing, Inc	637 Cedar St	Berkeley	SW02 - STORMWATER
PR0003015	FA0001363	SF Cottonwear, Inc.	2331 Fourth ST	BERKELEY	SW02 - STORMWATER
PR0002905	FA0001162	Berkeley Animal Care Services	1 Bolivar Dr	Berkeley	SW02 - STORMWATER
PRV7GGLKM	FA0001192	Sutter East Bay Medical Foundation	2500 Milvia St	Berkeley	SW02 - STORMWATER

APPENDIX C

FACILITIES LIST – RESTAURANT AND FOOD SERVICE

APPENDIX D

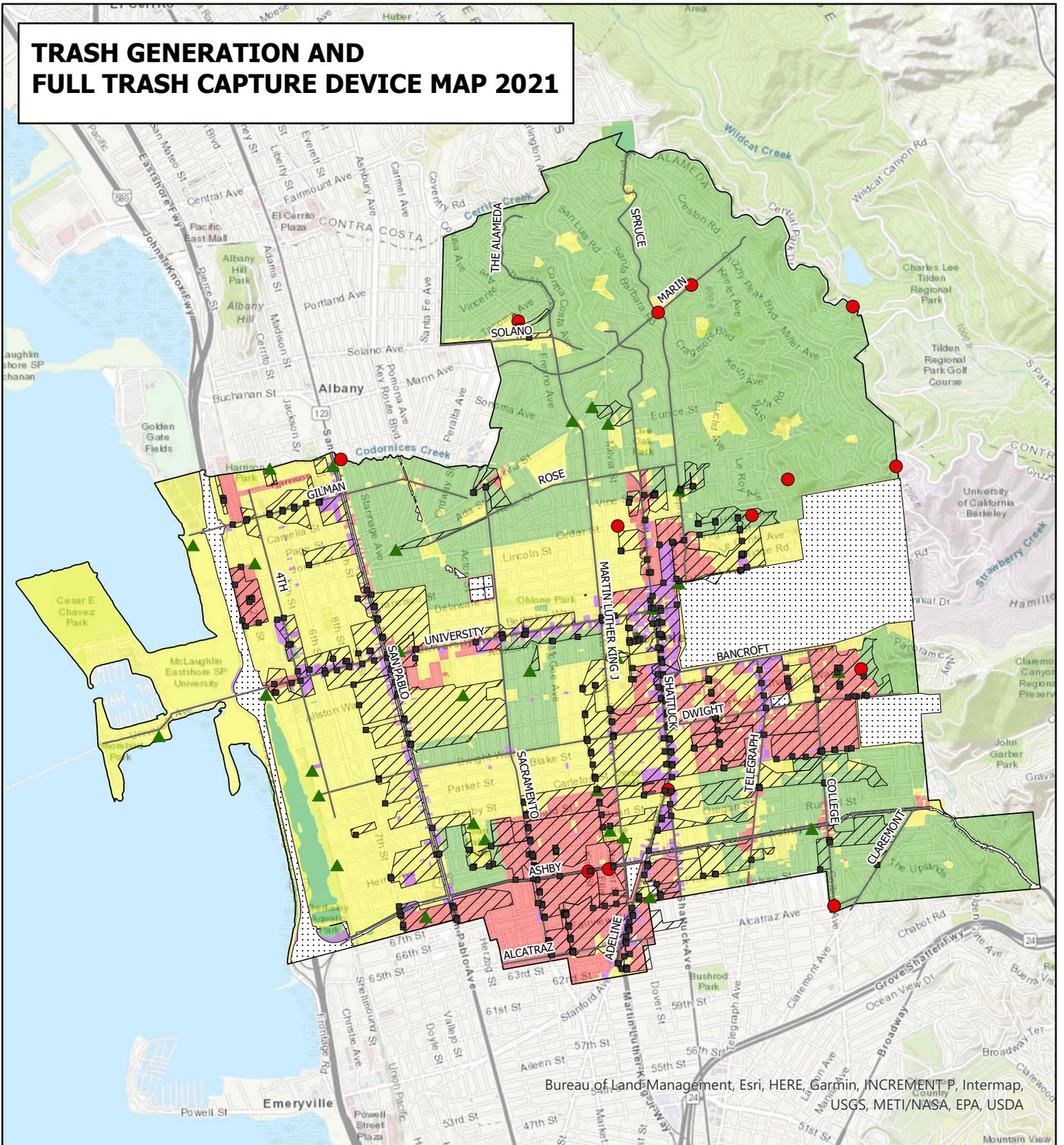
Non-Filers Facilities List – TMD
(Commercial and Industrial)

Site Address	City	Program/Element Code	Program Identifier
TTI, INC. DBA CLEARFLOW	631 Camelia ST	BERKELEY	SW02 - STORMWATER
Ripple Foods, PBC	901 Gilman ST Ste A	Berkeley	SW02 - STORMWATER
BUSD-PLANT OPERATIONS	1707 Russell ST	BERKELEY	SW02 - STORMWATER
Perfect Day, Inc.	740 Heinz Avenue	Berkeley	SW02 - STORMWATER

APPENDIX E

TRASH GENERATION AND FULL TRASH CAPTURE
DEVICE MAP - SEPTEMBER 2021

TRASH GENERATION AND FULL TRASH CAPTURE DEVICE MAP 2021



Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Trash Generation Areas

Category

- Low
- Medium
- High
- Very High
- Full Trash Capture Devices
- City Owned Green Infrastructure Projects
- Storm Event Hot Spots
- Major Streets
- Trash Management Area #1
- Trash Management Area #2
- FTCD Drainage Areas



CITY OF BERKELEY
Public Works
1947 Center Street
Berkeley CA 94704