Appendix F2: Priority-based Schedule for Inspecting/Maintaining Structural Controls, 2011
December 21, 2011

Loretta J. Fuddy, A.C.S.W., M.P.H.
Director of Health
State Department of Health
Environmental Management Division
Clean Water Branch
P.O. Box 3378
Honolulu, Hawaii 96801-3378

Dear Ms. Fuddy:

Subject: Structural Controls Inspection and Maintenance Plan
Municipal Separate Storm Sewer System NPDES Permit HI S0000002

Enclosed is the "Structural Controls Inspection and Maintenance Plan" dated December 2011. The plan is being submitted in accordance with Part D.1.f.(1)(iv) of the City's permit which states that:

"Maintenance of Structural Controls. The Permittee shall submit to DOH within 180 calendar days of the effective date of this permit a priority-based schedule for inspecting and maintaining structural controls, which shall include continuing to inspect debris/boulder basins and detention/retention basins on a monthly schedule and maintain/clean as necessary."

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 properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please call Gerald Takayasu of our Storm Water Quality Branch, Division of Environmental Quality, at 768-3287.

Sincerely,

Timothy E. Steinberger, P.E.
Director

Enclosure: Structural Controls Inspection and Maintenance Plan
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CITY AND COUNTY OF HONOLULU
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

STRUCTURAL CONTROLS INSPECTION AND MAINTENANCE PLAN

NPDES MS4 PERMIT NO. HI S000002

FINAL

Department of Environmental Services
City & County of Honolulu

December 2011
List of Appendices

Appendix 1: Basin List, Maps, and Photographs ................................................................. A-1
Appendix 2: Monthly Debris Boulder, Retention Basin Report Form .......................... B-1
Appendix 3: Storm Water Quality Annual Inspection Report ........................................ C-1
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A. Background

The City and County of Honolulu (City) received from the State Department of Health (DOH) National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit No. HI S000002 which became effective on June 24, 2011. The City's NPDES MS4 permit authorizes the City to discharge storm water runoff and certain non-storm water discharges (Part B.2) from the City’s MS4, Municipal Building Complex, Kapolei Building Complex, and City facilities into State Waters in and around the Island of Oahu.

NPDES Permit No. HI S000002 Section D.1.f.(1)(iv) states

“The Permittee shall submit to DOH within 180 days of the effective date of this permit a priority-based schedule for inspecting and maintaining structural controls, which shall include continuing to inspect debris/boulder basins and detention/retention basins on a monthly schedule and maintenance/clean as necessary.”

B. Objectives

1. Identify structures requiring cleaning and/or maintenance;
2. Develop a priority based schedule for inspecting and maintaining structural controls which best utilizes limited financial and staff resources while protecting the receiving waters from potential flooding hazards and water quality degradation;
3. Develop a feasible inspection plan that utilizes the available resources and provides the best means of protecting the receiving waters from potential flooding hazards and water quality degradation; and
4. Establish procedures for scheduling maintenance of identified areas based on field inspections.

C. Strategy

Appendix 1 shows the current list of structural controls inspected and maintained by the City. As structures are built or responsibility of maintenance changes this list of structural controls will be updated. Currently, there are twenty-three (23) structures (Appendix 1 – List, Location Maps, and Photographs of Inspected Structural Controls) that are inspected, at minimum, monthly by the City Department of Facility Maintenance-Division of Road Maintenance (DFM-DRM) personnel. During monthly inspection and inspections following heavy rain storms, an assessment of the structure is made and documented on Monthly Debris/Boulder/Retention Basin Cleaning Report Form (Appendix 2) which includes:

1. Personnel conducting inspection;
2. Amount of debris;
3. Amount of vegetation;
4. Need for cleaning/maintaining;
5. Estimate of material and amount needed to be removed (if any);
6. Estimations of type(s) and amount of heavy equipment (typically: excavators, track loaders, and dump trucks);
7. Personnel needed to clean/maintain; and
8. Photograph condition of structural control.
Determination of whether or not maintenance is required is based on the amount of debris accumulated in the structure and vegetation in or around the basin. If cleaning is needed, a tentative scheduled date for activity is made at time of inspection(s). Typically the maintenance activity does not require any regulatory permitting as activities are done outside of State Waters and/or waters of the United States. Following cleaning, the following information is added to the report:

1. Type of equipment and personnel used;
2. Quantity of material removed;
3. Procedures followed for offsite dewatering (if necessary) – offsite dewatering at District Baseyards, the Sand Inland Dewatering Facility or Ahuimanu Dewatering Facility;
4. Ultimate disposal site (if off-site- i.e. Waimanalo Gulch Landfill or green waste composting facility); and
5. Photographs taken to document post-maintenance condition.

The reports are kept at the district baseyards and a copy forwarded to the DRM Drainage Engineer each month. Totalized amounts removed during each fiscal year are reported in the MS4 Annual Report on October 31st of each year.

Additionally, Storm Water Quality (SWQ) Branch personnel inspect conditions of the structural controls twice annually during wet and dry weather conditions. A sample of this inspection report is included in Appendix 3. During inspection if maintenance and/or repairs are deemed necessary, SWQ personnel inform DFM-DRM Drainage Engineer.
Appendix 1

List, Location Maps, and Photographs of Inspected Structural Controls
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>TMK</th>
<th>District</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9417Y</td>
<td>16th Ave Catchment</td>
<td>3-3-017:001</td>
<td>Honolulu</td>
<td>1536 16th Avenue</td>
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<td>3-9-085:035</td>
<td>E Honolulu</td>
<td>677 Pukoo Street</td>
</tr>
<tr>
<td>9420Y</td>
<td>Hahaione (West) Boulder Basin</td>
<td>3-9-085:060</td>
<td>E Honolulu</td>
<td>984 Kahena Street</td>
</tr>
<tr>
<td>9432Y</td>
<td>Kalaniiki (Waialae Iki Stream) Retention Basin</td>
<td>3-5-024:009</td>
<td>E Honolulu</td>
<td>1650 Kalaniiki Street</td>
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<tr>
<td>9436Y</td>
<td>Kamiloiki Boulder Basin</td>
<td>3-9-099:018</td>
<td>E Honolulu</td>
<td>1261 Lunaililo Home Road</td>
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<tr>
<td>9438Y</td>
<td>Kapakahi (AinaKoa) Retention Basin</td>
<td>3-5-024:001</td>
<td>E Honolulu</td>
<td>1556 Ainakoa Avenue</td>
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<tr>
<td>9449Y</td>
<td>Kuliouou Retention Basin</td>
<td>3-8-017:080</td>
<td>E Honolulu</td>
<td>962 Kuliouou Road; end of road</td>
</tr>
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<td>9465Y</td>
<td>Manauwea Street Catchment</td>
<td>3-6-013:121</td>
<td>E Honolulu</td>
<td>5384 Maunawea Street</td>
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<tr>
<td>9472Y</td>
<td>Moanalua Retention Basin</td>
<td>1-1-012:030</td>
<td>Honolulu</td>
<td>1849 Ala Aolani Street; Ala Aolani St. end of the road</td>
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<td>9479Y</td>
<td>Niu Valley (East) Halaki Street Retention Basin</td>
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<td>440 Halaki Street</td>
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<tr>
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<td>Niu Valley (West) Haleola Street Retention Basin</td>
<td>3-7-015:063</td>
<td>E Honolulu</td>
<td>6080 Haleola Street</td>
</tr>
<tr>
<td>9481Y</td>
<td>Nuhelewai Retention Basin</td>
<td>1-6-017:004</td>
<td>Honolulu</td>
<td>1955 Aupuni Street</td>
</tr>
<tr>
<td>9502Y</td>
<td>Waialae Nui Stream Retention Basin</td>
<td>3-5-024:001</td>
<td>E Honolulu</td>
<td>5410 Kilauea Avenue; Halekoa Dr near 1405</td>
</tr>
<tr>
<td>9505Y</td>
<td>Wailupe Boulder Catchment (H. Iuka)</td>
<td>3-6-024:002</td>
<td>E Honolulu</td>
<td>Hind Iuka Dr near 1184</td>
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<tr>
<td>9000Y</td>
<td>Aiea Stream Debris Catcher</td>
<td>9-9-042:065</td>
<td>Pearl City</td>
<td>99-115 Aiea Heights Drive</td>
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<tr>
<td>9034Y</td>
<td>Komo Mai Drive Retention Basin</td>
<td>9-7-086:143</td>
<td>Pearl City</td>
<td>1867 Hoohulu Street; Near 1840 Hoohulu St.</td>
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<tr>
<td>9021Y</td>
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<td>9-6-008:016</td>
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<td>96-1350 Waihona Street</td>
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<td>9019Y</td>
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<td>9-8-060:015</td>
<td>Pearl City</td>
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<td>Kaupuni K2 Stream Debris Basin</td>
<td>8-5-019:065</td>
<td>Waianae</td>
<td>95-775 D. Waianae Valley Road</td>
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<td>9212Y</td>
<td>Paumalu Flood Control Catchment</td>
<td>5-9-006:032</td>
<td>Laie</td>
<td>59-178/C1 Kamehameha Hwy.</td>
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<tr>
<td>9612Y</td>
<td>Hio Place Debris Basin</td>
<td>4-7-050:046</td>
<td>Kaneohe</td>
<td>47-517 Hio Place</td>
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<tr>
<td>9328Y</td>
<td>Kahawai Stream Debris Catchment</td>
<td>4-1-024:023</td>
<td>Waimanalo</td>
<td>41-668 Kakaina Street (Waikupanaha St by Kakaina St)</td>
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<tr>
<td>9307Y</td>
<td>Kaopa Silt Basin</td>
<td>4-2-004:048</td>
<td>Kailua</td>
<td>End of Akaakaawa</td>
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</tbody>
</table>
16th Avenue Catchment
Hahaione (East) Boulder Basin
Hahaione (West) Boulder Basin
Kalaniiki (Waialae Iki Stream) Retention Basin
Kamilo Iki Community Park
Kamilo Iki Neighborhood Park
Kamilo Iki Boulder/Debris Basin Inspection Location Map

Prepared by: Dept. of Environmental Services
City & County of Honolulu
1000 Uluohia Street
Kapolei, Hawaii 96707
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Kamiloiki Boulder Basin
Kapakahii (AinaKoa) Retention Basin
Kuliouou Retention Basin
Niu Valley (West) Haleola Street Retention Basin
Waialae Nui Stream Retention Basin
Kaupuni K2 Stream Debris Basin
Paumalu Flood Control Catchment
Hio Place Boulder/Debris Basin Location Map

Prepared by: Dept. of Environmental Services
City & County of Honolulu
16000Uluohia Street
Kapolei, Hawaii 96707
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Hio Place B/D Basin
Closest Address:
47-515 Hio Pl.
Kaopa Silt Basin
Appendix 2

Monthly Debris/Boulder/Retention Basin Cleaning Report Forms
### NPDES Monthly Debris / Boulder / Retention Basin Cleaning Report

<table>
<thead>
<tr>
<th>Number</th>
<th>Boulder Basin Name</th>
<th>Date Checked</th>
<th>(1) Condition</th>
<th>Tentative Sched Date</th>
<th>Date(s) Storm Cleaned</th>
<th>After Storm Yes / No</th>
<th>Date Previously Cleared</th>
<th>Type / No. of Equipment / Trucks* Used</th>
<th>Crew Size ** (Range)</th>
<th>Quantity Material Removed</th>
<th>(2) Disposal Site</th>
<th>(3) Cost of Clearing (Force Account)</th>
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<td>9417Y</td>
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<td>9479Y</td>
<td>Niu Valley (East) Halaki St.</td>
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<td>Nihelewai (Aupuni)</td>
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<td>Waialae Nui (Kilauea)</td>
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</table>

** Sub-Total (Honolulu) **

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* Number of trucks - Range of trucks used per day

** Crew Size - Includes supervisors, all equipment operators, truck drivers and laborers

Legend:

(1) Condition:  
- a. Clean
- b. Need to Clean-
  (give tentative schedule date)

(2) Disposal Site:  
- a. Waimanalo Gulch
- b. Kapaa Quarry Landfill
- c. Other Location (describe)

(3) Include cost of direct labor, equip. rental, and fringe benefits
### NPDES
Monthly Debris / Boulder / Retention Basin Cleaning Report

<table>
<thead>
<tr>
<th>Boulder Basin Number</th>
<th>Name</th>
<th>Location</th>
<th>Date Checked</th>
<th>Condition</th>
<th>Tentative Sched. Date</th>
<th>Date(s) Cleaned</th>
<th>After Storm Yes / No</th>
<th>Date(s) Last Cleaned</th>
<th>Type/No. of Equipment/Trucks*</th>
<th>Crew Size (Range)**</th>
<th>Quantity Material Removed</th>
<th>(2) Disposal Site</th>
<th>(3) Cost of Cleaning (Force Account)</th>
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<td>9212Y</td>
<td>Paumalu Flood Control</td>
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</tbody>
</table>

** Inspectors:**

- Inspected by:________________________________________
- Inspected by:________________________________________
- Inspected by:________________________________________
- Inspected by:________________________________________

** Legend:**

1. **Condition:**
   - a. Clean
   - b. Need to Clean

2. **Disposal Site:**
   - a. Waimanalo Gulch Landfill
   - b. Kapaa Quarry Landfill
   - c. Other Location (describe)

3. **Include cost of direct labor, equipment rental and fringe benefits**

** Notes:**

- * Number of trucks - Range of trucks used per day
- ** Crew Size - Includes supervisor, all equipment operators, truck drivers, and laborers

---

**Total**
Appendix 3

Sample of Storm Water Quality Annual Inspection Report
CITY & COUNTY OF HONOLULU
DEPARTMENT OF ENVIRONMENTAL SERVICES
STORMWATER QUALITY BRANCH
KAPOLEI, HAWAII 96707
FIELD DATA SHEET
VISUAL INSPECTION OF BOULDER/DEBRIS BASIN

Name of Boulder/Debris Basin: Kapakahi West (Ainakoa)
Date: 8/23/10 Time: 1:53 pm
Location: 1556 Ainakoa Avenue TMK: 3-5-037:069

Inspection Team: M. Nakagaki

WEATHER CONDITIONS (check one): Dry weather ☑ Wet weather □

BOULDER/DEBRIS BASIN CONDITION (check all that applies):
Volume of water in the basin: None ☑ Low □ Medium □ Full □ Overflow □
Stream water: Clear □ Brown □ Gray □ Black □ Other: N/A
Turbidity: Clear □ Suspended Solids □ Cloudy □ Opaque □ Other: N/A
Floatables: None □ Oily Sheen □ Rubbish □ Other: N/A
Deposit: None □ Sediments ☑ Rocks □ Trash □ Tree branches □ Other: Tree branches
Odor: None □ Musty □ Sewage □ Rotten Eggs □ Sour Milk □ Other: Musty

ADDITIONAL OBSERVATIONS/COMMENTS: After removal of excess vegetation and debris.

PHOTOS:

Photo 1

Photo 2
<table>
<thead>
<tr>
<th>Photo #</th>
<th>Date</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/23/10</td>
<td>1:53 pm</td>
<td>Upstream inlet.</td>
</tr>
<tr>
<td>2</td>
<td>8/23/10</td>
<td>1:53 pm</td>
<td>Condition of basin.</td>
</tr>
<tr>
<td>3</td>
<td>8/23/10</td>
<td>1:53 pm</td>
<td>Condition of basin at spillway.</td>
</tr>
<tr>
<td>4</td>
<td>8/23/10</td>
<td>1:53 pm</td>
<td>Sediment and vegetation in back of spillway.</td>
</tr>
<tr>
<td>5</td>
<td>8/23/10</td>
<td>1:53 pm</td>
<td>Spillway.</td>
</tr>
<tr>
<td>6</td>
<td>8/23/10</td>
<td>1:53 pm</td>
<td>Detention basin outlet past spillway.</td>
</tr>
</tbody>
</table>

Signature: Mark Nakagaki

Date: 8/23/10