

PŪ'ŌHALA ELEMENTARY SCHOOL WATER POLLUTION CONTROL FACT SHEET

Pū'ōhala Elementary School is located on Kulauli Street next to Pū'ōhala Park, and behind Bay View Golf Course in Kāne'ōhe. Storm water discharges from the campus flow via the small Municipal Separate Storm Sewer System (MS4) into the City's MS4 system located in Pū'ōhala Park, which discharges into Kāne'ōhe Stream, a Class 2 inland water.

The average annual rainfall at the school is approximately 57 inches. The site is flat, but rimmed by steep slopes between the school and residential lots along Wena and Hilina'i Streets to the south and west. Pū'ōhala Park borders the east side of campus with residences bordering the north, west, and south. Based on the site visit conducted in July 2006, issues of importance for storm water quality on this campus include potential storm water pollution from erosion, grounds-keeping practices, dumpster overflow, and littering at the adjacent park.

Kāne'ōhe Stream is listed on the DOH Final 2004 List of Impaired Waters in Hawai'i (June 16, 2004) for nutrients, turbidity, and pesticides (dieldrin) based on visual, numeric, and narrative assessments. Total Maximum Daily Loads are being developed for this location. When it rains, water flows over campus carrying the pollutants it picks up into the storm drains. Storm drains are not connected to wastewater treatment plants. Therefore the pollutant water flows directly into the stream. Pollutant means any hazardous waste, petroleum products, pesticides, chemical fertilizers, sewage sludge, animal waste, soil erosion and soil, accumulation of sediments, and construction waste and materials.

WHAT YOU CAN DO TO HELP PROTECT WATER STAFF ACTIVITIES

Use water wisely. By conserving water at Pū'ōhala Elementary School, the amount of wastewater needing treatment and disposal will be reduced. Involve target audiences, including school staff, students, families, and the community, in the MS4 permit process and in storm water pollution prevention.

Use fertilizer and pesticides sparingly. Rain water can easily carry these substances to a nearby storm drains and stream.

Landscape school land to prevent erosion. Cover bare ground with grass, shrubs or trees to hold soil in place. Establish vegetation buffer zones along storm drains and stream.

Dispose of hazardous substances properly. Motor oil, paints, solvents and other chemicals should not be poured on the ground or down the storm drains, because they can migrate to our streams and ocean. Oil should be recycled. Other substances should be used up, evaporated or soaked into clay litter, wrapped in plastic and put out with trash.

Improve Pū'ōhala's Housekeeping. Fix leaks throughout campus by replacing faucet washers and toilet flappers as needed. A slow drip or leak can easily waste more than 100 gallons of water a week. Put litter in trash cans so it does not get washed into the storm drains or stream.

Implement annual campus cleanup event. Coordinate cleanup event for the whole campus to collect litter and address any other issues that would impact storm water quality, such as storage of materials and soil erosion areas. Maintain record of litter collected and other changes that impact storm water quality and take “before and after” pictures of campus.

STUDENT ACTIVITIES

Study storm water management. Teachers need to address hazards associated with illicit discharges to our storm drains and streams. Develop steps that can be taken to reduce storm water pollution.

Learn about good Housekeeping. Good housekeeping practices are simply maintaining a safe, orderly, and clean learning environment. Conduct an individual or class project to reinforce pollution prevention activities consistent with protecting storm water.

Learn where your wastewater goes. Investigate the wastewater drainage process from School to ocean via streams, storm and sewer drains.

Educate others. Conduct an individual or class projects to inform others about protecting our ocean from pollution.

Participate in annual campus cleanup event. Participate in a campus cleanup day to collect litter and address any other issues that would impact storm water quality, such as storage of materials and soil erosion areas.

REPORT ANY ILLEGAL DISCHARGE

As a member of Pū‘ōhala Elementary School we make a difference by reporting any illegal discharge in our school and community.

Pū‘ōhala Elementary School 233-5660

Spill response (Hazard Evaluation and Emergency Response)

- Local (HFD): 911 (24/7)

- State (HSERC): 586-4249 (business hours) 247-2191 (after hours)

To report illegal discharge that has already occurred, call 692-5656

Polluted runoff public outreach: 692-5208 (City) 586-4309 (State)

Share your pollution behaviors and practices with your family, friends, and neighbors.

MS4 Best Management Practices (BMP) for Custodial Personnel

Public Education and Outreach

- Attend annual MS4 education/training. Ensure new and substitute custodial personnel are aware of MS4 pollution prevention BMPs.
- Participate in campus clean up events to assist in public education in pollution prevention

Illicit Discharge Detection and Elimination

- Visually check storm drains/inlets daily in their assigned areas to identify potential pollutants. Quarter-ending checks must be recorded in Custodial Storm Drain Inspection Log.
- If illicit discharge is detected, Custodians must attempt to determine origin of pollution. Report spills or illegal dumping to Supervisors and appropriate regulatory agencies.
- Pick up trash materials and place in appropriate trash receptacles.
- Record trash debris from storm drain cleanup events/inspections.

Pollution Prevention/Good Housekeeping

- Maintain general grounds keeping practices to prohibit erosion and debris from entering storm drains.
- Dispose used mop water at indoor sinks that connects to sanitary sewer system to ensure proper waste storage disposal.
- No cleaning product use on exterior surfaces that are exposed to storm water.
- Ensure cleaning/pest management chemicals do not enter storm drains/drainage systems.
- Apply fertilizer/poisons during dry periods and not in anticipation of rain.
- Monitor/clean areas prone to illegal dumping such as dumpsters, and hidden areas on campus.
- Ensure dumpster covers are lowered and secured during non-business hours to prohibit illegal dumping.
- Remove debris and litter from landscape, storm drain inlets and other drainage structures on a regular basis.