ATTACHMENT 6

All projects will collect baseline, pre-installation data and compare this data with either estimated or measured water savings. System water savings will be converted to kWh savings and GHG savings based on the Santa Clara Valley Water District system energy intensity factor of 4,993.23 kWh/MG (as described in Attachment 2), and the default GHG factor of 0.361 kg/ft2. A summary of estimated and measured water, energy, and GHG savings by project will be provided with quarterly and annual progress reports.

Project 1: Monitoring Impact of Residential Occupancy Direct Installation

- During DI retrofit visit, Ecology Action (EA) will document existing aerator flow rates, clothes washer capacity, and energy factors by checking manufacturer data and/or measuring flow rate at the fixture. Detected leaks will also be measured if repaired.
- During DI visit, EA will survey residents and facility managers to determine how many residents, on average, live in the building.
- Post-DI visit, EA will compare survey information and pre-installation baseline data with manufacturer data from HE aerators and clothes washers to determine expected water savings per residence. Pre- and post-installation water use will be calculated using average aerator/fixture use times derived from published studies. Additional energy savings from hot water retrofits will be estimated using listed energy factors of gas or electric water heaters and pre-determined savings values as described in Attachment 2.

Project 2: Monitoring Impact of Pre-Rinse Spray Valve (PRSV) Direct Installation

- During DI visit, EA will document flow rates of existing PRSVs and estimate savings based on manufacturer flow rate data of installed high efficiency PRSVs, an average run-time of 3 hours/day and days of operation/week as reported by facility managers.

Projects 3 and 4 Monitoring Impact of Turf Replacement and Irrigation Upgrades

- During initial site assessment, baseline water use data will be recorded for each irrigation zone to be retrofitted by recording flow rate at the meter, multiplied by peak Evapotranspiration (ET) run time for that zone at the irrigation controller, and adjusted for seasonal ET.
- Post-installation, flow data will again be recorded for each zone at the meter, multiplied by the run-time for peak ET, and adjusted for seasonal ET.
- If the site has a dedicated irrigation meter, EA will acquire customer water use records to compare pre- and post-installation water use.

Project 5: Monitoring Impact of Ozone Laundry Retrofits

- Water use at laundry facilities will be metered for 30 days pre-installation and 30-days post-installation to determine actual water savings.
- Reductions in therms will be calculated based on site-specific hot water energy intensity factors.

[1] To view the full Watts to Water report, please visit the Santa Clara Valley Water District Website at http://www.valleywater.org/ and search "Watts to Water" for a download link.