APPENDIX Q
IEUA’s Mission on Recycled Water

Inland Empire Utilities Agency, in cooperation with its seven Member Agencies, is offering Disinfected Tertiary Recycled Water that meets all the requirements for Title 22 Water Recycling Criteria.

IEUA is dedicated to offering a clean, safe and drought-proof source of water, thereby reducing the dependence on expensive imported water. This recycled water can be used for a variety of non-potable purposes, such as landscape irrigation, agricultural irrigation, construction, and industrial cooling. By replacing these water-intensive applications with high quality recycled water, fresh water can be conserved or used for other purposes such as drinking and bathing. Every drop of recycled water made is potentially a drop of potable water saved.

IEUA’s Goal For Use Of Recycled Water

"The overall goal of the IEUA Recycled Water Program is to encourage maximum use of the recycled water resource for beneficial purposes, thereby conserving water within the Chino Basin and reducing the dependency on imported water."
Distribution

Currently Recycled Water is being served primarily to the City of Chino and the City of Chino Hills. An extensive distribution system is planned in phases over the next 10 years to serve the northern portion of IEUA’s service area. Local recycled water planned pipelines are not included in the distribution map. For information on when recycled water will be available in your area, please contact your local member agency.

Distribution Map – Present and Planned Future Dist System
## Current vs. Future Recycled Water Usage

### CURRENT REGIONAL RECYCLED WATER PROGRAM TOTALS (Acre-Feet/Year)

<table>
<thead>
<tr>
<th>Category</th>
<th>Production (AFY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Production</td>
<td>67,000</td>
</tr>
<tr>
<td>Prado Requirement</td>
<td>-17,000</td>
</tr>
<tr>
<td><strong>Net Available</strong></td>
<td><strong>50,000</strong></td>
</tr>
<tr>
<td>Current Recycling</td>
<td>5,300</td>
</tr>
<tr>
<td>Current Recharge</td>
<td>500</td>
</tr>
<tr>
<td><strong>Total Utilization</strong></td>
<td><strong>5,800</strong></td>
</tr>
</tbody>
</table>

### REGIONAL RECYCLED WATER PROGRAM GOALS BY 2020 (Acre-Feet/Year)

<table>
<thead>
<tr>
<th>Category</th>
<th>Projection (AFY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projected Production</td>
<td>127,000</td>
</tr>
<tr>
<td>Prado Requirement</td>
<td>-17,000</td>
</tr>
<tr>
<td><strong>Net Projected Available</strong></td>
<td><strong>110,000</strong></td>
</tr>
<tr>
<td>Projected 2020 Recycling</td>
<td>42,000</td>
</tr>
<tr>
<td>Projected 2020 Recharge</td>
<td>28,000</td>
</tr>
<tr>
<td><strong>Total Projected Utilization</strong></td>
<td><strong>70,000</strong></td>
</tr>
</tbody>
</table>

*An acre-foot is about 326,000 gallons, which is enough to serve household needs of two families of four for a year.*

http://www.ieua.org/r/overview.htm  
9/5/2003
Inland Empire Utilities Agency's Goals For Water Recycling
in Acre-Feet / Year

- Year 2020
- 34,500 AFY
- Year 2015
- 28,500 AFY
- Year 2010
- 14,800 AFY
- Year 2005
- 5,300 AFY
- Year 2000
What Can Recycled Water Be Used For?

IEUA produces one of the nation’s highest quality recycled water that can be used for a wide variety of applications, including, but not restricted to those listed below.

- Industrial cooling towers,
- Industrial process water,
- Irrigation of unrestricted access golf courses,
- Irrigation of freeway landscaping,
- Irrigation of pasture for animals,
- Groundwater recharge,
- Cleaning roads, sidewalks and outdoor work areas,
- Dust control on roads and streets,
- Soil compaction,
- Mixing concrete,
- Recreational impoundments,
- Decorative fountains,
- Commercial laundries,
- Commercial car washes,
- Flushing toilets and urinals,
- Irrigation of residential landscaping,
- Irrigation of parks and playgrounds, and school yards, and
- Irrigation of food crops.

Current Use of Recycled Water in Our Service Area

Presently, IEUA wholesales disinfected tertiary recycled water to the City of Chino, City of Chino Hills, and the City of Ontario. With the exception of Reliant Energy located in Etiwanda, most of the current recycled water users are located in IEUA’s Southern Service Area. Plans are underway to expand the recycled water system to include the Northern Service Area via recycled water pipelines, pump stations, and satellite plants.

RWRP - 1 Recycled Water Uses

Plant effluent is currently used for irrigation of the Whispering Lakes Golf Course, El Prado Golf Course, and Westwind Park. It also supplies water to the Prado Regional Park Lake in southwestern San Bernardino County, the excess flow is being discharged to the Cucamonga Creek Flood Control channel and into the Santa Ana River.
Recycled water from the RWRP-1 Facility is also currently used to recharge the Chino Basin aquifer via the Ely Basin No. 3 at the rate of 500 AFY. The quantity of recycled water recharged in the Basin is scheduled to increase to 2,300 AFY in the future.

RWRP-2 Recycled Water Uses
The RWRP-2 tertiary effluent is currently released to Chino Creek.

RWRP-4 Recycled Water Uses
The RWRP-4 tertiary effluent is combined with the RP-1 effluent and thus is used for irrigation of the El Prado Golf Course, and also supplies water to the Prado Regional Park Lake in southwestern San Bernardino County, with excess being discharged to the Cucamonga Creek Flood Control channel and onto the Santa Ana River. It will soon be used as cooling water for Reliant's Etiwanda generating station.

CCWRF Recycled Water Uses
Plant effluent is delivered to the IEUA "southern" recycled water distribution system that supplies water to the City of Chino and the City of Chino Hills. The City of Chino has 24 customers ranging from industries, to City parks and small businesses. The City of Chino Hills has larger users, i.e., golf courses, housing associations and much of the City's greenbelt area, parkway medians and curb areas.

RWRP-5 Recycled Water Uses
RWRP-5 currently under construction. The recycled water from this plant will be available for unrestricted recreational use, such as boating, fishing, and swimming. Any excess and chlorinated/dechlorinated effluent will be released to Chino Creek.

Contacts: Public Information Officer  Webmaster

October 27, 2003

Mr. Joseph T. Ruzicka
Board of Directors
Three Valley Municipal Water District
1021 E. Miramar Avenue
Claremont, California 91711-2052

Dear Director Ruzicka:

On behalf of the Inland Empire Utilities Agency’s (IEUA) Board of Directors, I would like to invite you to tour our recently completed Administrative Headquarters on Tuesday, November 4, 2003, at 10 a.m. Your visit will include a presentation, tour and a question-and-answer session. Refreshments will be served.

Our headquarters buildings have been designed and constructed with the goal of attaining the highest level of energy and environmental efficiency design standards in the United States – standards adopted by the United States Green Building Council. Every detail of IEUA’s new headquarters – from the solar panels on the roof to the tire stops in the parking lot made from recycled milk containers – was designed to be both environmentally sound and cost-effective. Although IEUA’s two 33,000 square-foot buildings are as large as 40 average homes, they consume only as much energy as three to four average homes. IEUA has reduced its need for energy from the grid by more than 70% and we expect to be 100 percent energy self-sufficient within two years.

We are very proud of our new headquarters and believe it is an excellent example of how it is possible, with careful, integrated planning to provide new office space while conserving resources, minimizing environmental impacts, providing a healthy environment for employees, and restoring the native landscape.

I hope you will be able to join us on November 4. Please RSVP to Sondra Elrod at 909.993.1747 by October 31 to confirm your attendance.

Sincerely,

INLAND EMPIRE UTILITIES AGENCY

Eliza Jane Whitman

Eliza Jane Whitman
Supervising Engineer
Headquarters Project Manager
APPENDIX S
<table>
<thead>
<tr>
<th>NO</th>
<th>DESCRIPTION</th>
<th>LOCATION CODE</th>
<th>VERBIAGE</th>
<th>QTY</th>
<th>MOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LEED Plaque</td>
<td>COMM 203 A</td>
<td>The Agency’s two 33,000 square foot buildings are equivalent in size to 40 average homes, but their energy consumption is that of approximately three to four average homes.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>LEED Plaque</td>
<td>COMM 203 A</td>
<td>Recycled water from the Agency’s treatment facilities is used to meet 100% of the demands of on-site irrigation water features and toilets.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>3</td>
<td>LEED Plaque</td>
<td>COMM 291 A</td>
<td>Recycled water from the Agency’s treatment facilities is used to meet 100% of the demands of on-site irrigation water features and toilets.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>4</td>
<td>LEED Plaque</td>
<td>COMM 002 B</td>
<td>Each building boasts 27 separate climate control zones, as well as carbon dioxide sensors that continuously monitor the environment.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>5</td>
<td>LEED Plaque</td>
<td>COMM 050 A</td>
<td>A fleet of electric and hybrid vehicles as well as on-site electric chargers and bike racks have been provided to encourage alternative transportation by employees and visitors.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>6</td>
<td>LEED Plaque</td>
<td>COMM 065 B</td>
<td>Employee Break Rooms feature environmentally-friendly materials:</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>7</td>
<td>LEED Plaque</td>
<td>COMM 110 A</td>
<td>Installation of low-emitting materials including paints, carpets, adhesives and composite wood reduce concentrations of volatile organic compounds inside the building, providing a healthier working environment.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>8</td>
<td>LEED Plaque</td>
<td>PO 550 B</td>
<td>The systems furniture incorporates large percentages of recycled and low-emitting materials. The fabric is 100% recycled and the panels &quot;1.4&quot; chairs are made of 90% recycled materials and the private office furniture is fabricated locally to reduce transport costs.</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>9</td>
<td>LEED Plaque</td>
<td>WS 134 A</td>
<td>Carpet tiles, bathroom partitions and tiles, employee breakroom countertops, fireplace, and landscaping materials are made from recycled materials. 77% of building construction materials were recycled.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>10</td>
<td>LEED Plaque</td>
<td>WS 559 B</td>
<td>Solar roof panels produce 60,000 watts of electricity. The remaining power and heating and cooling requirements are met from using methane gas generated at the Agency’s treatment plants.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>11</td>
<td>LEED Plaque</td>
<td>WS 134 A</td>
<td>Natural light from skylights and windows, in conjunction with very efficient lighting fixtures and light sensors throughout the buildings, as well as a 'cool roof' and absorption chillers.</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>12</td>
<td>LEED Plaque</td>
<td>COMM 034 A</td>
<td>Installation of high-efficiency plumbing fixtures, such as 0.5 gallon faucet aerators, recycled water for dual-flush toilets, ultra low flow urinals, and landscape irrigation reduces building water consumption by 74% over standard buildings.</td>
<td>9</td>
<td>A</td>
</tr>
<tr>
<td>13</td>
<td>LEED Plaque</td>
<td>COMM 034 A</td>
<td>Restroom environmental features include:</td>
<td>3</td>
<td>A</td>
</tr>
<tr>
<td>14</td>
<td>LEED Plaque</td>
<td>COMM 104 A</td>
<td>Restroom environmental features include:</td>
<td>3</td>
<td>A</td>
</tr>
<tr>
<td>15</td>
<td>LEED Plaque</td>
<td>COMM 002 A</td>
<td>Restroom environmental features include:</td>
<td>3</td>
<td>A</td>
</tr>
<tr>
<td>NO</td>
<td>DESCRIPTION</td>
<td>LOCATION CODE</td>
<td>VERBAGE</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>LEED Plaque</td>
<td>COMM 001 A</td>
<td>Exterior environmental features are many, and include:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMM 501 B</td>
<td>* Water-guzzling ceramic toilets have been crushed and recycled as part of the building’s foundation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PO 053 A</td>
<td>* Tire steps are made of recycled milk cartons</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMM 065 B</td>
<td>* Drive sides and parking lots provide exhibits of various materials used to achieve stormwater capture and water reuse</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PO 005 A</td>
<td>* Rubber mulch is from California recycled tires</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Curb and gutters have been eliminated and swales and basins are designed for stormwater infiltration and treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* All plants are either native California or drought tolerant plants. 15 gallons is the largest size plant installed on site to establish a healthier trees and shrubs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* Light pollution is being kept to a minimum with ‘lights off’ at 9 PM and exterior lighting directed down to stay on site</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>* The parking lots and driveways consist of five different paving materials. This reduces the ‘heat island’ effect, allows for on-site infiltration, and provides a cost effective design.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE 1: The header on this plaque will read ENVIRONMENTALLY CONSCIOUS FURNITURE.
APPENDIX T
IEUA: LEED™ing The Way

Inland Empire UTILITIES AGENCY™

* A Municipal Water District
Dear Friend:

The Inland Empire Utilities Agency (IEUA) is committed to building a better environment by example. Our new administrative headquarters, located in the City of Chino, is a wonderful example of how we can build a cost-effective, environmentally sound public building that will contribute to the quality of life in the Chino Basin.

The headquarters buildings, using inexpensive tilt-up construction, were designed and constructed with the goal of attaining the highest level of national standards by the United States Green Building Council’s Leadership in Energy and Environmental Design (LEED). The new headquarters facilities demonstrate how using recycled building materials and state-of-the-art energy efficiency can create a better environment, save water, improve staff productivity and contribute to the restoration of native landscapes.

The headquarters complex is one of the largest public landscapes in Southern California to use native plants and to have integrated state-of-the-art storm water management, including the restoration of natural drainage and the creation of wetlands and riparian habitat, on the property.

IEUA’s administrative headquarters proves that smart building design can achieve environmental benefits, provide a healthy work environment and save significant public dollars. IEUA’s payback on the increased costs of investing in a LEED™ designed building will be realized in four years – far exceeding the originally envisioned 12-year payback.

IEUA’s board of directors, executive management and staff are excited about the new headquarters complex. To learn more about our facility, please visit IEUA’s Web site at http://www.ieua.org.

Sincerely,

Richard W. Atwater
Chief Executive Officer
General Manager
Building Highlights

Leading by example, IEUA's board of directors approved the use of LEED™ design criteria for its new headquarters to showcase how an integrated, sustainable-designed building can create a better environment, conserve energy, improve productivity and contribute to the restoration of native landscapes.

Energy Savings

While the headquarters complex's two 33,000 square-foot buildings are equivalent in size to 40 average-sized homes, the energy consumption is equivalent to approximately three to four average-sized homes.

By 2006, IEUA's administrative headquarters will be 100% energy "self-sufficient." The facilities will achieve self-sufficiency through a combination of energy conservation and power generated by solar panels (photovoltaics) located on the facility's roof, and methane gas generated by the anaerobic digestion process at the wastewater treatment plant located adjacent to the headquarters.

Water Efficiency

The use of recycled water from IEUA's treatment facilities and installation of high-efficiency plumbing fixtures, dual flush toilets and ultra-low flow urinals, reduces water consumption by 75% compared to buildings using traditional fixtures.

Recycled water from IEUA's treatment facilities meets irrigation and exterior non-potable water demands. Planting more than 10,000 native and drought tolerant trees, shrubs and bushes throughout the site further reduces water consumption.

Cost Savings

The construction costs for the two tilt-up headquarters buildings were less than $154 per square foot—far below the industry standard of $180-$294 per square foot for comparable buildings. Improved lighting, water and energy efficiencies will result in significant operating cost savings. IEUA expects to save more than $800,000 per year in energy costs alone.

Natural Resource Conservation

The extensive use of recycled materials is seen throughout the interior and exterior of the headquarters complex. Using green power technologies and recycled water from IEUA's treatment plants, the buildings effectively conserve precious natural resources and utilize proactive conservation measures.
Headquarter Interior Highlights

- Countertops made from 100% recycled materials that would have otherwise gone into landfills.
- Millwork cabinetry constructed from low-emitting composite wood that reduces volatile organic compounds inside the building.
- Fully recyclable plastic and aluminum seating.
- Wall coverings and partitions are made of recycled materials.
- Dual flush toilets using recycled water.
- Restroom partitions made of recycled milk containers.
- Restroom tiles made from recycled auto windshields.
- The building receives natural light from the 20 skylights in Building A and 22 in Building B.
- Installation of low-emitting materials including paints, carpets, adhesives and composite woods.
- 27 separate climate control zones and carbon dioxide sensors continuously monitor the interior environment.

Light sensors that dim or increase the fluorescent lighting, depending upon the intensity of sunlight, are placed throughout the building.

Enclosed area with increased ventilation to improve air quality.

LEGEND
1. Lobby
2. Boardroom
3. Executive Offices
4. Restrooms
5. Office Space
6. Break room
7. Production Center
8. Conference Rooms
Headquarter Exterior Highlights

IEUA's headquarters complex was designed to also serve as a 14-acre demonstration site for storm water capture, settling and treatment. The 25-year storm event is detained on-site and allows storm water to be treated naturally via swales, wetlands and native vegetation planted specifically for that purpose. This reduces pollutants in the urban run-off, which improves water quality and also reduces downstream flooding.

Off-site storm water is designed to surface flow “day lighting” instead of being discharged to a local creek through a box culvert, as originally specified in the City of Chino’s Stormwater Master Plan.

Drive Isles, Parking Lots and Exterior Grounds

A combination of five different paving materials were used in the drive Isles and parking lot to exhibit storm water capture and water reuse.

- Asphalt used in drive Isles.
- Decomposed granite used in pathways and parking stalls.
- Porous concrete used in drive Isles and parking stalls.
- Gray concrete used in parking stalls.
- Interlocking pavers used in pathways and parking stalls.

Landscaping and Recycled Water

In their continued efforts to drought-proof the Chino Basin, IEUA's Board of Directors adopted a native landscape policy for its headquarters facility. Recycled water is used to meet 100% of the irrigation demands.

- Rubber mulch is made from 100% recycled tires.
- More than 10,000 native and drought tolerant trees, shrubs and bushes were planted throughout the site.

Exterior Building Specifics

- Solar roof panels (photovoltaics) produce 60,000 watts of energy. These panels generate enough electricity to power 32,000 square feet of office space.
- "Cool roof" reflects light and reduces the effect of heat absorption.
- A fleet of alternative fueled vehicles, an on-site fueling facility, and bike racks encourage alternative transportation by employees and visitors.
- Tire stops made from recycled milk containers.
- Crushed high water consumption toilets used in the buildings' foundation.
- Exterior lighting stays on-site, reducing light pollution.
IEUA's Vision

Inland Empire Utilities Agency's vision is to promote water conservation, water recycling, groundwater management, organic composting, renewable energy, and overall environmental stewardship in partnership with the communities we serve.

Planning for a Reliable Water Future
IEUA showcases innovative water conservation programs to save water that will help meet our future water needs. Every gallon of water saved translates into reduced demand for expensive imported water supplies resulting in lower water bills.

Water Recycling
IEUA's regional recycled water distribution system will provide up to 20% of our future water needs. This safe and inexpensive water can be used for outdoor irrigation, commercial and industrial processing and other non-potable uses.

Groundwater Management
Working with its retail agencies and Chino Basin Watermaster, IEUA is implementing a comprehensive groundwater enhancement program that will provide over 500,000 acre-feet of new groundwater storage within the Chino Basin ensuring that Chino's vast groundwater supply is available to meet the future needs of the region.

Organic Composting
In a joint venture with Los Angeles County Sanitation District, IEUA is retrofitting an existing warehouse into an enclosed composting facility to process organic material into high-quality fertilizer products.

Energy Efficiency
IEUA is developing cost-effective and reliable renewable energy sources through green power technologies such as solar panels, biogas (methane) fuels, and efficient power generation systems to demonstrate what can be done locally to generate power.

Air and Water Quality Benefits
IEUA is committed to the protection of the region’s air and downstream water quality through its Organics Management Strategy of treating wastewater biosolids, dairy manure, yard clippings and other organic materials.