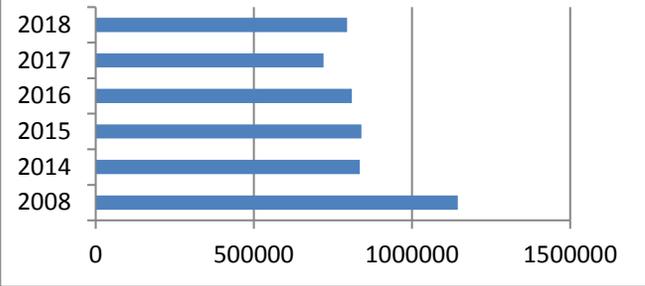


2018 Sustainability Report

Principle 1: Purchase and use of environmentally safe and sensitive products

Theme: Paper Purchasing and Reduction in Use

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS														
<ul style="list-style-type: none"> We replace paper with electronic communication whenever practical; including bidding documents, registration confirmations, P-cards, accreditation documents, staff manuals, board packets, etc. We print double-sided pages when possible. We use 30% recycled content office paper. 	<ul style="list-style-type: none"> The District has added multiple facilities, parks and programs over the past 10 years, yet has kept its annual office paper use below the 2008 level when tracking paper use began. IT began transitioning by departments' requests to Smart Field Forms for staff documents, including employment forms, vehicle inspection forms, etc. that can be completed electronically, saving hundreds of sheets of paper. The board secretary launched BoardDocs—software that creates electronic agendas, minutes and supporting documents for board and committee meetings, saving an estimated 78,000 sheets of paper annually. <div data-bbox="575 586 1220 964" style="text-align: center;"> <p>Number of Sheets of Paper Used</p>  <table border="1"> <caption>Number of Sheets of Paper Used (Estimated from Chart)</caption> <thead> <tr> <th>Year</th> <th>Number of Sheets</th> </tr> </thead> <tbody> <tr> <td>2018</td> <td>~800,000</td> </tr> <tr> <td>2017</td> <td>~750,000</td> </tr> <tr> <td>2016</td> <td>~850,000</td> </tr> <tr> <td>2015</td> <td>~900,000</td> </tr> <tr> <td>2014</td> <td>~900,000</td> </tr> <tr> <td>2008</td> <td>~1,150,000</td> </tr> </tbody> </table> </div>	Year	Number of Sheets	2018	~800,000	2017	~750,000	2016	~850,000	2015	~900,000	2014	~900,000	2008	~1,150,000	<p>By using 30% recycled content paper since 2012, we saved, cumulatively:*</p> <ul style="list-style-type: none"> 72.7 short tons of wood 585 million BTUs of energy 387,000 lbs. carbon dioxide 542,000 gallons of water <p>By switching to direct mailing of our Program Guide, we are able to print 10,500 fewer guides each quarter, resulting in the following paper savings annually:</p> <ul style="list-style-type: none"> 2,898,000 sheets of paper 348 trees 472 million BTUs of energy 331,147 gallons of water <p>*Calculations made by the Environmental Paper Network Paper Calculator</p>
Year	Number of Sheets															
2018	~800,000															
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Theme: Use of Green Cleaning Supplies and Services throughout the District

SUSTAINABLE PRACTICES	BENEFITS
<ul style="list-style-type: none"> Parks staff uses a bulk cleaner dispensing system by Metro with lidded, 5-gallon buckets. Cleaners are pre-measured and diluted with water. Staff uses green cleaners in all facilities and parks, including golf courses, Centennial Beach, Knoch Knolls Nature Center, Fort Hill Activity Center and Knoch Park Central Maintenance Facility. Custodial is using a 5-filter system for vacuums, resulting in cleaner air. Custodial's eco-flex carpet extractor uses less water and chemical when cleaning carpets. Custodial's eco-flex auto-scrubber strips floors with water and small amounts of low VOC cleaners. All cleaning machines use cold water only, and peroxide-based cleaners. All floor finishes have a 0.95% or less VOC. Restroom paper products are made of 100% recycled content. Custodial uses recycled plastic trash can liners. Fleet uses a solvent-free cleaner to clean vehicle parts. 	<ul style="list-style-type: none"> Green products are safer for employees using them. Green products are safe for volunteers to use, including volunteers with special needs. Containers are refillable, reducing waste. Green products do not pollute soil, air, or water.

Principle 2: Effective Use and Protection of Air, Water, Soil, and Wildlife

Theme: Use Pervious Materials for Construction of Hardscape When Practical

SUSTAINABLE PRACTICES	BENEFITS
<ul style="list-style-type: none"> • The District maintains approximately 118,033 SF of pervious pavement. • Consider installing pervious pavement in areas where maintenance is practical. • Seek grants to assist with initial cost and/or maintenance of pervious pavers. Each of the 6 pervious pavement projects completed between 2009 and 2016 was funded, in part, by grants. • Parks Department manages annual sweeping of pervious pavement at Winding Creek Park, Seager Park, Weigand Riverfront Park, Knoch Knolls Nature Center, Sportsman’s Park and Fort Hill Activity Center. 	<ul style="list-style-type: none"> • 50-year lifecycle cost of pervious pavement is projected to be 25% less than asphalt. • Improves water quality of the DuPage River and other streams by reducing runoff and filtering water on site. • Pollutants removed include nitrogen, phosphorus, lead, zinc, and total suspended solids.

Theme: Conserve Water in Operations

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS
<ul style="list-style-type: none"> • Use water from retention ponds and quarries for irrigation. • Synthetic turf fields at Nike Sports Complex and Commissioners Park reduce the need for irrigation. • Golf continues to reduce water usage by adjusting the spray patterns of sprinklers. • The 1,400 gallon cistern at Knoch Knolls Nature Center reuses rainwater for indoor plumbing, providing approximately 50% or more of the water used by the building. • The 10,000 gallon underground cistern at Knoch Park can provide approximately 50% of the water used for ball field irrigation. 	<ul style="list-style-type: none"> • The Knoch Park cistern and its connection to the irrigation system were repaired in 2018 and should be ready for use again in 2019. • The cistern at Knoch Knolls Nature Center harvested approximately 136,882 gallons of water in 2018. The cistern provided 56% of the water used at the facility, saving approximately \$1,369 in water costs. • Rain sensors at Frontier Sports Complex, Commissioners Park and Fort Hill Activity Center prevent the irrigation system from watering when the soil already is moist enough. 	<ul style="list-style-type: none"> • Reuse of rain water saves money, local potable water supply, and slows runoff from the site, leading to improved water quality of local streams.

Principle 2: Effective Use and Protection of Air, Water, Soil, and Wildlife (cont'd)

Theme: Protect Wildlife

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS
<ul style="list-style-type: none"> • Park Police hand out river wildlife cards on the Riverwalk to encourage visitors to refrain from feeding ducks and other waterfowl • Central Parks staff maintains two hives of honeybees at the back of the organic area of the Ron Ory Community Garden Plots. • Central Parks discontinued use of the chemical, Merit, for grub control and uses Acelepyrn instead, which is safer for pollinators. • The District maintains 5 monarch way stations at Knoch Knolls Nature Center, Nike Sports Complex, Country Lakes Park, Seager Park, and the Ron Ory Community Garden Plots. All are certified through Monarch Watch. A monarch way station includes 10 or more milkweed plants and 4 or more nectar plants in an area that is at least 100 SF. • Both golf courses have incorporated native areas with milkweed and other pollinator plants (approx. 2.5 acres at Springbrook and 5 acres at Naperbrook). The native areas receive minimal herbicide treatments, and no insecticide treatments. No pesticides are applied during egg laying periods. Annual mowing and other practices help minimize invasive weeds; milkweed seeds are sown to increase the number of plants. 	<ul style="list-style-type: none"> • In 2018 the District expanded pollinator plants, shrubs, and trees at the Ron Ory Community Garden Plots with assistance from a grant from Trees Forever. • North Parks converted .10 acre of turf to create a future monarch way station at the Riverwalk near Rotary Hill. • North Parks planted additional pollinator seed at the monarch way stations at Nike Sports Complex, Country Lakes Park, and Seager Park. • New decals are planned for the windows at Knoch Knolls Nature Center to protect birds that try to fly into the windows. 	<ul style="list-style-type: none"> • Honeybees are essential to many of the fruits and vegetables that we enjoy. Providing a safe place for several hives will benefit the garden plots and will help bring back the honeybee population. • Allowing ducks to feed naturally leads to better health for the ducks, prevents crowding and aggression among the ducks, and helps keep the river clean. • Milkweed plants provide habitat for monarch butterflies, both for laying eggs and for feeding the caterpillars. Other native, flowering plants provide nectar for adult monarchs.

Principle 2: Effective Use and Protection of Air, Water, Soil, and Wildlife (cont'd)

Theme: Improve and Maintain the District's Natural Areas

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS
<ul style="list-style-type: none"> The Parks Department actively maintains existing natural areas and works with the Planning Department to restore additional natural areas. Community volunteers assist with park maintenance projects when possible. 	<ul style="list-style-type: none"> District-wide natural areas include prairie, woodland, shoreline and "low mow" areas. The District managed approximately 383 acres of natural areas in 2018. Natural area management practices in 2018 included 67 acres of controlled burning, 44 acres of invasive removal and 39 acres of low mowing. 397 trees were planted District-wide. 670 volunteers devoted 3,609 hours to park maintenance & environmental projects in 2018. Planning completed a shoreline restoration project at Clow Creek Greenway, adding 1.25 acres of natural area at the site. Pond dredging was completed at Rock Ridge Park and at May Watts Park (Phase 1) for better water quality. South Parks seeded 22 acres of prairie and woodland with native grass and forb seed. 	<ul style="list-style-type: none"> Benefits of restoring shorelines include less maintenance for staff, improvement in the water quality of rivers and streams, smaller Canadian geese population, and improvement in native riparian animal & insect habitat. Benefits of increased low-mow areas include reduction of air pollution caused by mowing and reduction in the amount of fuel used for mowing and reduction in labor and related costs. Pond aerators eliminate the need for chemical applications, reducing pollution.

Theme: Improve and Evaluate Use of Chemical Applications for Landscape Maintenance and Hard Surfaces

SUSTAINABLE PRACTICES	2018 Update	BENEFITS
<ul style="list-style-type: none"> Golf and Parks are using best management practices in applying fertilizers and herbicides, including soil testing to limit elements only to what are needed for the soil. Parks staff continues to reduce the amount of salt applied in deicing; uses magnesium chloride in all sensitive areas and for walkways. Central Parks uses microbes to improve turf quality while decreasing the use of synthetic fertilizer and plant protectant chemicals. Golf continued the use of naturally occurring microbes to reduce thatch in turf, helping to naturally reduce pests and disease problems. Central Parks top dresses fields with 10 tons of compost, mostly composed of leaves, twigs and landscape waste, reducing fertilizer use, to relieve compaction and feed the soil bacteria that provide nutrients to the turf. The Riverwalk team applies leaf compost on perennial beds in place of mulch, which helps to add nutrients to the soil, reduce the need for fertilizer and relieve compaction. Ft. Hill Activity Center has heated walkways to the entrance to reduce need for salt in winter. South Parks is using "Power Melt Green" to melt ice; it is calcium magnesium acetate based and labeled one of the most environmentally friendly ice melt formulations. 	<ul style="list-style-type: none"> Parks completed the first year of an organic park maintenance initiative, in which 8 parks and more than 65 playground areas are maintained only with organic products for two years. Weeds, turf and soil will be monitored and the approach evaluated. A community dandelion pull was held at Knoch Park, which is one of the parks being maintained with organic products. The pull was spearheaded by Midwest Pesticide Action Center and resulted in 122 lbs. of dandelions pulled. Central Parks worked with a group of middle school students who tested the effectiveness of natural vs. synthetic fertilizers on quality of grass and soil. 	<ul style="list-style-type: none"> Benefits of best management practices in landscape maintenance include improved water quality in streams and ponds, healthier turf, improved soil, protection of pollinators, and reduced cost. Benefits for reducing use of salt include reduced replacement costs for salt damaged landscaping trees and shrubs; protection of water quality, plant, and animal life in sensitive wetland areas; and reduced costs from more efficient application of deicers, minimizing waste. (From IPRA's <i>Environmental Toolkit</i>)

Principle 3: Effective Use of Energy Resources

Theme: Energy Conservation - Vehicles and Equipment

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS												
<ul style="list-style-type: none"> Using bio-based fuel and fluids, including B20 Dieselelex Gold fuel during the warm season, EcoTerra hydraulic fluid, fully synthetic engine oil, and canola based lubricant. Continue to purchase or convert vehicles for alternative fuel, including hybrid, electric and propane. Continue to test efficiency and economy of new fuels, fluids and types of vehicles. We reuse oil from Centennial Grill and Springbrook and Naperbrook clubhouses to fuel the vegetable oil tractor. We recycle excess oil via a vender. The fleet now has a propane fueling station and 14 road vehicles that run on propane and gasoline fuel, 3 propane forklifts and 6 propane zero-turn mowers. NPD has been designated as an Illinois Green Fleet since 2011. 	<div data-bbox="940 302 1516 656" data-label="Figure"> <table border="1"> <caption>% Fleet Using Alternative Fuel</caption> <thead> <tr> <th>Year</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>2014</td> <td>50%</td> </tr> <tr> <td>2015</td> <td>55%</td> </tr> <tr> <td>2016</td> <td>58%</td> </tr> <tr> <td>2017</td> <td>61%</td> </tr> <tr> <td>2018</td> <td>64%</td> </tr> </tbody> </table> </div> <ul style="list-style-type: none"> In 2018, the District added 2 propane zero-turn mowers to its fleet, increasing the percent of vehicles/equipment using alternative fuel from 63% to 64%. Golf purchased a hybrid mower with reduced horsepower and less oil going through the machine and less spillage than the diesel mower. 	Year	Percentage	2014	50%	2015	55%	2016	58%	2017	61%	2018	64%	<ul style="list-style-type: none"> Electric vehicles produce no emissions. Hybrids are expected to provide twice the gas mileage of the vehicles they replaced. Synthetic oil improves fuel economy, uses less oil. Propane is cleaner and costs less than gasoline. Use of vegetable oil is carbon neutral.
Year	Percentage													
2014	50%													
2015	55%													
2016	58%													
2017	61%													
2018	64%													

Theme: Renewable Energy Use

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS																				
<ul style="list-style-type: none"> Rooftop solar panels provide renewable energy at Knoch Knolls Nature Center, Nike Sports Complex, and Fort Hill Activity Center. Parks operates 2 solar-powered pond aerators at Hobson West Ponds. Fleet installed a solar panel to power a diesel pump and also used solar power for a trailer lift. Solar panels are considered for buildings when grants or rebates are available. 	<p align="center">2018 Solar Output at Nike Sports Complex, Knoch Knolls Nature Center and Ft. Hill Activity Center</p> <table border="1"> <thead> <tr> <th>Facility</th> <th>kWh Generated by PVs (Est.)</th> <th>Est. Cost Savings</th> <th>CO2 Avoided</th> </tr> </thead> <tbody> <tr> <td>Nike Sports Complex</td> <td>16,146</td> <td>\$1,800</td> <td>11.4 metric tons</td> </tr> <tr> <td>Knoch Knolls Nature Center</td> <td>21,960</td> <td>\$2,449</td> <td>15.5 metric tons</td> </tr> <tr> <td>Ft. Hill Activity Center</td> <td>43,200</td> <td>\$4,817</td> <td>30.5 metric tons</td> </tr> <tr> <td align="right">TOTAL</td> <td>81,306</td> <td>\$9,066</td> <td>57.4 metric tons</td> </tr> </tbody> </table>	Facility	kWh Generated by PVs (Est.)	Est. Cost Savings	CO2 Avoided	Nike Sports Complex	16,146	\$1,800	11.4 metric tons	Knoch Knolls Nature Center	21,960	\$2,449	15.5 metric tons	Ft. Hill Activity Center	43,200	\$4,817	30.5 metric tons	TOTAL	81,306	\$9,066	57.4 metric tons	<ul style="list-style-type: none"> Solar panels produce clean, renewable energy. Annual cost savings throughout lifecycle. Educational value for the community.
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Principle 3: Effective Use of Energy Resources (cont'd)

Theme: Energy Conservation – Indoor and Outdoor Facilities

SUSTAINABLE PRACTICES	2018 UPDATE							BENEFITS																																																								
<ul style="list-style-type: none"> The District conducts an ongoing energy audit, tracking electric and gas bills. Trades is upgrading to LED lights whenever budget allows. Energy efficient lighting and HVAC systems are installed in new buildings. Athletic fields use energy-efficient lighting that can be controlled remotely to accommodate schedule changes. All sports lighting is now integrated into the Control Link system. Drop-in tennis and basketball court lighting is now on push button controls, for more energy savings. 	<p>Energy and Cost Savings for Control Link System</p> <table border="1" data-bbox="430 412 1451 824"> <thead> <tr> <th>Year</th> <th>kWh Saved - Early Offs</th> <th>kWh Saved Using Push Buttons</th> <th>Total kWh Saved</th> <th>Tons CO2 Saved</th> <th>Cost Savings in Early Offs</th> <th>Cost Savings Push Button</th> <th>Total Cost Savings</th> </tr> </thead> <tbody> <tr> <td>2013</td> <td>18,589</td> <td>118,373</td> <td>136,962</td> <td>94</td> <td>\$1,673</td> <td>\$10,654</td> <td>\$12,327</td> </tr> <tr> <td>2014</td> <td>21,767</td> <td>106,342</td> <td>128,109</td> <td>88</td> <td>\$1,959</td> <td>\$9,272</td> <td>\$11,231</td> </tr> <tr> <td>2015</td> <td>23,700</td> <td>238,477</td> <td>262,177</td> <td>181</td> <td>\$2,133</td> <td>\$23,848</td> <td>\$25,981</td> </tr> <tr> <td>2016</td> <td>20,189</td> <td>222,646</td> <td>242,835</td> <td>171</td> <td>\$1,817</td> <td>\$22,265</td> <td>\$24,082</td> </tr> <tr> <td>2017</td> <td>20,067</td> <td>258,380</td> <td>278,447</td> <td>207</td> <td>\$2,207</td> <td>\$28,422</td> <td>\$30,629</td> </tr> <tr> <td>2018</td> <td>25,089</td> <td>270,017</td> <td>295,106</td> <td>209</td> <td>\$2,760</td> <td>\$29,702</td> <td>\$32,462</td> </tr> </tbody> </table> <p>Reduced electricity demand with Control Link saved 209 metric tons of carbon emissions in 2018.</p>							Year	kWh Saved - Early Offs	kWh Saved Using Push Buttons	Total kWh Saved	Tons CO2 Saved	Cost Savings in Early Offs	Cost Savings Push Button	Total Cost Savings	2013	18,589	118,373	136,962	94	\$1,673	\$10,654	\$12,327	2014	21,767	106,342	128,109	88	\$1,959	\$9,272	\$11,231	2015	23,700	238,477	262,177	181	\$2,133	\$23,848	\$25,981	2016	20,189	222,646	242,835	171	\$1,817	\$22,265	\$24,082	2017	20,067	258,380	278,447	207	\$2,207	\$28,422	\$30,629	2018	25,089	270,017	295,106	209	\$2,760	\$29,702	\$32,462	<ul style="list-style-type: none"> Reducing energy use realizes cost savings and reduction in pollution, water consumption & use of fossil fuels.
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Principle 4: Reduction and Handling of Waste

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS										
<ul style="list-style-type: none"> • Conduct periodic waste audits. • The District specifies mixed-source recycling for its waste hauler contract, recycling approximately 35% of its total waste annually, with 25% comprised of recycled materials and 10% comprised of yard waste. • NPD asks contractors to recycle construction waste. • Staff continues recycling and reusing materials whenever possible. • Parks staff chips trees and uses mulch for trails, etc. • The District hosts community recycling opportunities when practical. • Tennis balls are recycled at Knoch Park Tennis Courts in a bin provided by high school students. • Fleet uses Pig Mats to absorb oil and then recycle it. 	<ul style="list-style-type: none"> • Central Parks collected 5,000 leftover Christmas trees from local businesses to create 22 truckloads of valuable mulch. Central also collected 100 tons of manure from local horse farms for use by gardeners in the Ron Ory Community Garden Plots. • Also at the Garden Plots, 5,684 lbs. of pumpkins were dropped off by 128 vehicles/groups and composted into the soil in the second annual Pumpkin Smash. • The District is looking into ways to reduce single-use plastic products such as drinking straws, plastic cups and utensils. • Fort Hill Activity Center hosted a free paper shredding event for the public on April 22. <p style="text-align: center;">Other Materials Recycled/Reused in 2018</p> <table border="1" data-bbox="554 626 1472 792"> <thead> <tr> <th>Engine Oil (gal.)</th> <th>Electronics</th> <th>Holiday Lights</th> <th>Pallets</th> <th>Metal</th> </tr> </thead> <tbody> <tr> <td>Est. 1,250 gal. and 50 oil filters</td> <td>Surplus NPD electronic equipment was collected for future recycling at the City of Naperville's facility</td> <td>520 lbs.</td> <td>266</td> <td>17,860+ lbs.</td> </tr> </tbody> </table>	Engine Oil (gal.)	Electronics	Holiday Lights	Pallets	Metal	Est. 1,250 gal. and 50 oil filters	Surplus NPD electronic equipment was collected for future recycling at the City of Naperville's facility	520 lbs.	266	17,860+ lbs.	<ul style="list-style-type: none"> • Materials are kept out of the landfill. • Reuse and recycling generates cost savings and rebates. • Composting pumpkins returns water and nutrients to the soil.
Engine Oil (gal.)	Electronics	Holiday Lights	Pallets	Metal								
Est. 1,250 gal. and 50 oil filters	Surplus NPD electronic equipment was collected for future recycling at the City of Naperville's facility	520 lbs.	266	17,860+ lbs.								

Principle 5: Environmental Education and Interpretation

SUSTAINABLE PRACTICES	2018 UPDATE	BENEFITS
<ul style="list-style-type: none"> • The District maintains a page on its website with information about our environmental initiatives. • Interpretive signs (34 to date) are installed where appropriate to educate park visitors about our natural areas. • “Conservation at Home” signs showcase restoration and demonstration projects at the Ron Ory Community Garden Plots, Winding Creek Park, Frontier Sports Complex and Knoch Knolls Nature Center. • We promote a rain barrel sale with The Conservation Foundation as a part of Earth Week Naperville. • A volunteer training video is now available at www.napervilleparks.org. 	<ul style="list-style-type: none"> • Naperville Park District received the 2018 Water Quality and Ecology Flags and renewed Earth Flag from DuPage County. As part of the District’s application for these awards, staff received training from SCARCE regarding local and global environmental issues, and an audio recording of the presentation was made available to all staff. • Naperville Park District also received the IAPD Best Green Practices award for its sustainability initiatives. • 21,667 people visited Knoch Knolls Nature Center in 2018, including participants in environmental education programs, special events and mobile tours. Special events included the Rx for Nature Event that attracted 350= visitors, Creepy Critters Day, involving 395 participants, and Nature Discovery Days with 557 participants. • In 2018, 174 people accessed the mobile tours at Knoch Knolls Nature Center, which included 85 visitors who participated in the scavenger hunt and 89 visitors who accessed the audio described tour and Earth Day tour. • Volunteer Manager Lynnette Hoole coordinated with 12 organizations to launch the second Earth Week Naperville—a community-wide initiative to offer educational events and engage volunteers in beautifying parks and other public spaces in celebration of both Earth Day and Arbor Day. A total of 293 volunteers logged 931 service hours, and more than 800 attended the first annual Earth Day Fair held at Fort Hill Activity Center. • Knoch Knolls Nature Center added a new Nature Playtime program for young children and parents to give opportunities for free outdoor play and a nature walk. • The District’s ParkTalk Podcast published a series of episodes with environmental themes, including composting, the role of honey bees, organic gardening, and research by a team of middle school students on organic vs. natural fertilizers. This team went on to win a national competition for their research and presented at a park board meeting. • Nature Center Manager Angelique Harshman took a tour of the Willow Ranch Composting Facility, which accepts some of the landscape waste from the Garden Plots. • Staff updated the District’s recycling decals for containers out in parks to help educate residents about what is recyclable and what is not. Contamination of recycling is becoming more of a problem as markets for recycled materials are shrinking and costs are rising. • Staff presented a summary of the District’s environmental initiatives to a delegation of government officials visiting from China. 	<ul style="list-style-type: none"> • NPD is known as a leader in promoting green practices. • Education and communication leads to growth in sustainable practices within NPD and in the community.