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To: Dan Quick, Village Administrator

From: David Geary, Director of Public Works and Building and Zoning
Jackie Soccorso, Director of Environmental Quality and Public Works Supt. of Admin.
Alex Pryde, Public Works Superintendent of Operations
Joe Schwarz, Fire Prevention Division Chief and Building Commissioner

Date: May 12, 2010

Public Works, Building and Zoning, and Environmental Quality Department
Administrative Report for April 29th through May 12th, 2010

Public Works



depicting the role trees play in energy conservation.

Arbor Day Recognition

The Village of Wauconda, in cooperation with the Wauconda Area Chamber of Commerce, recognized Arbor Day on April 30th with celebrations at Robert Crown School, Wauconda Grade School and Transfiguration School. Each celebration recognized the fifth grade Arbor Day Poster Contest participants, and culminated with the school poster contest winner (and classroom winners) helping to plant a tree on school grounds. Trees were generously donated by the Chamber for the events. We are proud to announce that School Winner Emeli Barradas from the Wauconda Grade School placed sixth in the state for her poster



Emeli Barradas poses with Mayor Knigge and WGS Principal Debbie Monroe.

Arbor Day Tree and Shrub Sale

As part of our recognition of Arbor Day, the Village and the Wauconda Area Chamber of Commerce co-sponsored a tree and shrub sale for local residents. Unseasonably warm weather contributed to a large crowd of interested shoppers who were able to choose from a large variety of trees, shrubs and grasses. Sales were brisk, and positive feedback was received from many customers about the prices and available product selection.



Tree City USA Designation

The Village of Wauconda was recognized for the fourth consecutive year by the nonprofit Arbor Day Foundation as a Tree City USA community. Wauconda has met the four standards required to gain (or keep) the designation. Tree City USA communities must have:

- a tree board or department
- a tree care ordinance
- a comprehensive forestry program and an
- Arbor Day observation and proclamation.

Maintaining this designation has been a Departmental priority even with the recent budget challenges.

Street Division

Street Sweeping/Vactor Truck Activity

During this reporting period, street sweeping continued in the Village in the Larkdale Subdivision, the Country Ridge Subdivision, and the older parts of town. The vactor was used to clean 16,827 feet of sanitary sewer line within the Lake View Villa, Larkdale and Country Ridge Subdivisions.

Water Division

Main Valve Repairs

In preparation for the upcoming 2010 road construction, Water Division crews were able to excavate and complete repairs on four (previously identified) leaking valves in the area of the first phase of pavement resurfacing. All four were in the area of Lake Shore Blvd., Sunnyside Avenue, and Clearview Avenue and each involved repairs to the o-ring packing glands. Water Division personnel also created an inventory of o-rings most likely to be found in the packing glands in order to reduce our down-time in the field acquiring the correct parts. These parts can be hard to locate as many of our valves are forty to fifty years old or more, but still serve their function well.



Preparing for a New Packing Gland



Repairs at Lake Shore & Sunnyside

Water Reclamation Division

Career Fair – Robert Crown School

On May 7th, Water Reclamation Division staff joined Water Division staff at a career fair at Robert Crown School in Wauconda. The career fair was designed to expose fifth grade students to different career options, and to stress the importance of school in future employment. Staff members answered questions from participants about the various tasks that are completed by employees in the Water & Water Reclamation divisions. (See attached article from the Lake County Journal.)

Effluent Sampling

Samples were collected on the final effluent and were sent to SF Analytical for toxicity testing. Fathead minnows and ceriodaphnia are exposed to multiple dilutions of the final effluent for various periods of times to monitor toxicity of the water. This meets the requirements of Special Condition #12 of IEPA NPDES permit.



Fish are exposed to final effluent for toxicity testing.

The following water reclamation projects were also completed during the reporting period:

- Staff continued to work on landscaping on treatment plant grounds. Staff pulled weeds, trimmed trees and bushes, planted new bushes, fertilized grounds, and removed dead bushes and limbs.
- There were four off hour callouts. There was a power outage at the treatment plant, two power outages at the landfill, and a blower surge.
- JM Irrigation completed the annual start up of the non-potable water irrigation system. All spray nozzles, heads, water valves were checked for proper operation.
- Completed two rounds of stream sampling on Fiddle Creek. This meets the requirements of Special Condition #17 of IEPA NPDES permit. Six locations are sampled and analyzed before and after various points of receiving streams.
- Samples were collected on the raw, final, and sludge for the industrial local limits study.
- Samples were collected on the sludge for monthly monitoring. This meets the requirements of Special Condition #4 & #6 of IEPA Sludge permit. Results are later used when sludge land application occurs by Synagro Midwest.
- A total of one UV lamps were replaced during reporting period. Bulb had 15,550 hours of run time and the lamp only has an estimated run life of 12,000 hours.
- Complete weekly and monthly preventative maintenance package. This includes exercising, lubricating, changing oi and checking of equipment.
- A total of nineteen grease traps and triple basin inspections occurred during the reporting period. Inspections are completed to ensure that proper disposal of FOG (Fats, Oils, Grease) is occurring. This is completed to help facilitate proper wastewater collection and treatment.
- There was database entry, filing, and results tracking completed for the Environmental Quality Department. A total of 172 grease trap and triple basin inspections were entered into the master database and filed. A total of 65 annual pretreatment inspections were entered into the database file.

Indicators for Water Reclamation (14 day reporting period)

Final Flow

Total pumpage for period: 16,526,000 gallons

Design flow of treatment: 1,900,000 gallons per day

Design maximum flow of Treatment works: 6,000,000 gallons per day

Average flow for reporting period: 1,180,000 gallons per day

High flow reporting period: 2,092,000 gallons

Low flow reporting period: 1,058,000 gallons

Performance Indicators for Water Produced

Total pumpage for period: 15,262,000 gallons

Dependable capacity of waterworks @ 24 hrs/day: 3,470,070 gallons per day

Dependable capacity of water works @ 18 hrs/day: 2,548,470 gallons per day

Average daily pumpage for reporting period: 1,090,000 gallons per day

High day for reporting period: 1,419,000 gallons per day

Low flow for reporting period: 802,000 gallons per day

- JULIE locates: 80
- Daily check of water facility: 14
- Daily water supply operational tests conducted: 240
- Daily water distribution operation test conducted: 64
- Non-daily bacteriological samples collected: 8

- Non-daily chemical samples collected: 5
- Repaired water meters: 3
- Installed water meters: 5
- High water bill investigations: 1
- Water quality inquiry: 1
- Penalty posted: 362
- Red Tags delivered: 1
- Red Tag Notice shut-offs: 0
- Final readings: 47
- Backflow 2nd notice: 20
- Backflow 3rd notice: 4



Building and Zoning

Building Department

Commissioner Schwarz:

- On-site Inspections:
 - 528 Brown Street-Residential addition
 - 529 Brown Street-Driveway/Patio
 - 2310 Serenity Lane-Patio addition
 - 775 Lipizzan Lane-Basement Build-out
 - 2417 Trailside-Deck/Patio addition
 - 516 Farmhill Circle-Shed Installation

- Construction Meeting with Pathmann Architects for the Slyce facility.
- Goals/Strategic Plan staff meeting (Dave Geary, Joe Schwarz, Chris Miller, Tracy Fessler).
- Attended Designated Erosion Control Workshop

Inspections/Investigations Completed:

- 70 building permit inspections
- 28 Residential Dwelling Inspections
- 2 complaint investigations and follow-up

Permit Desk:

- 27 new building permits including 2 single family homes for total revenue of \$25,680
- 16 new Real Estate Dwelling Inspection Applications for total revenue of \$1,200
- 13 electric and 10 plumbing inspections by sub-contractors for total revenue of \$1,150
- Prepared 3 FOIA requests

Zoning Services

Rolf C. Campbell and Associates (RCCA) continues to work with Village staff on various planning and zoning questions and potential economic development opportunities. Recent projects have included correspondence with the Chicago Metropolitan Agency for Planning (CMAP) regarding grants, programs and operations, and completion of a survey of 2010 Municipal Plans. RCCA continued its review of the Village Sign Code and prepared a summary memo for review with Village Staff.

Zoning Administration Services – Specific Applications

Work continues on 421 Liberty St.--RCCA staff has been in contact with the Applicant and the Village Attorney with various questions and issues regarding this property.

Students learn about new professions at Career Day

By STEPHANIE N. LEHMAN - slehman@lakecountyjournal.com



Luke Markko, an employee of the Wauconda Public Works Wastewater Department, shows fifth-grade students at Robert Crown Elementary School in Wauconda various jars of contaminated and clean water. Markko was one of several adults who shared information about his job at the school's Career Day on May 7.

WAUCONDA – Many children want to be doctors and lawyers when they grow up.

That's only because those are some of the only jobs they're familiar with, said Helene Neihaus, a fifth-grade teacher at Robert Crown Elementary School.

For three years now, Neihaus has hosted a Career Day to help her students learn about different types of professions in the hope that they'll find something that sparks their interest and helps motivate them to stay in school.

"A lot of them didn't know the options of what they [could do]," Neihaus said. "A lot of the girls want to be teachers, and it got [me] thinking – kids don't know what else is out there."

Neihaus invited 11 parents and community members to set up booths and talk to the students about their jobs May 7.

From optometrist Dr. Bob Peterson to Luke Markko and David Schilf – employees of Wauconda Public Works – the students got a glimpse of other professions, and some found a common bond with the professionals.

“I think it’s kind of interesting because I really care about animals,” Carla Botzoc, 11, said about Keith Merritt’s job. Merritt is an equine veterinarian and showed the students the leg of a horse and explained how he goes about treating his patients.

“I think it would be a fun job,” Botzoc continued. “I didn’t know much about it, so he helped me learn about it.”

Jose Munoz, 11, said he wanted to be a modern artist, but he still was interested in the presentation given by airline pilot Laura Cherry.

“[I learned that] how the earth is rotating, you can’t just go straight to your destination – it won’t be there,” Munoz said. “That’s why you have to go up.”

Neihaus didn’t just want her students to learn about different careers, however. She also wanted them to understand that getting an education is the first step toward getting their dream job.

Firefighter Tomm Smither, a public-education coordinator for the Wauconda Fire District, put Neihaus’s thoughts directly in words.

“If you want to drive a firetruck, you have to be good at math,” Smithe told the fifth-graders. “You have to be able to do algebraic equations in your head, because you have to be able to figure out how much water to [use] to put out the fire ... The important thing here is, you have to go to school to become a firefighter.”

Principal Terrence Brennan thought Career Day was an excellent idea.

“I think it’s important boys and girls, even at this age, realize the importance that these people went to school and college to get here today,” Brennan said.

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TREE LOADERS



PHOTOS BY GEORGE LECLAIRE, geclaire@dail herald.com

Above, Wauconda Public Works employees load trees on a flatbed truck Saturday during An-floch's 5th Annual Tree and Shrub sale that were delivered to residents and businesses. The tree sale was sponsored by the Wauconda Area Chamber of Commerce, in partnership with the village of Wauconda, in observance of Arbor Day at Acres Group in Wauconda.

Daily Herald Lake County

SATURDAY, MAY 1, 2010



A new tree in town

Chris Esvang, a certified arborist for the village of Wauconda, left, and Robert Crown School fifth-grader Darick Langos participate in an Arbor Day tree-planting ceremony Friday in Wauconda. Langos was a classroom poster contest winner from the school.

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