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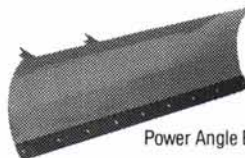
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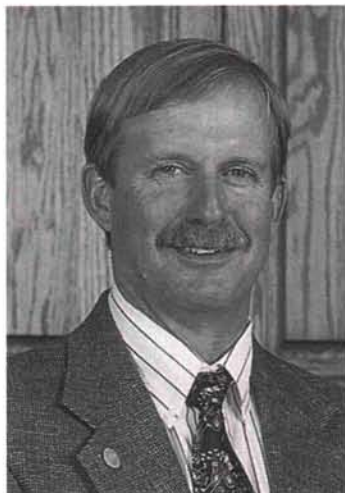
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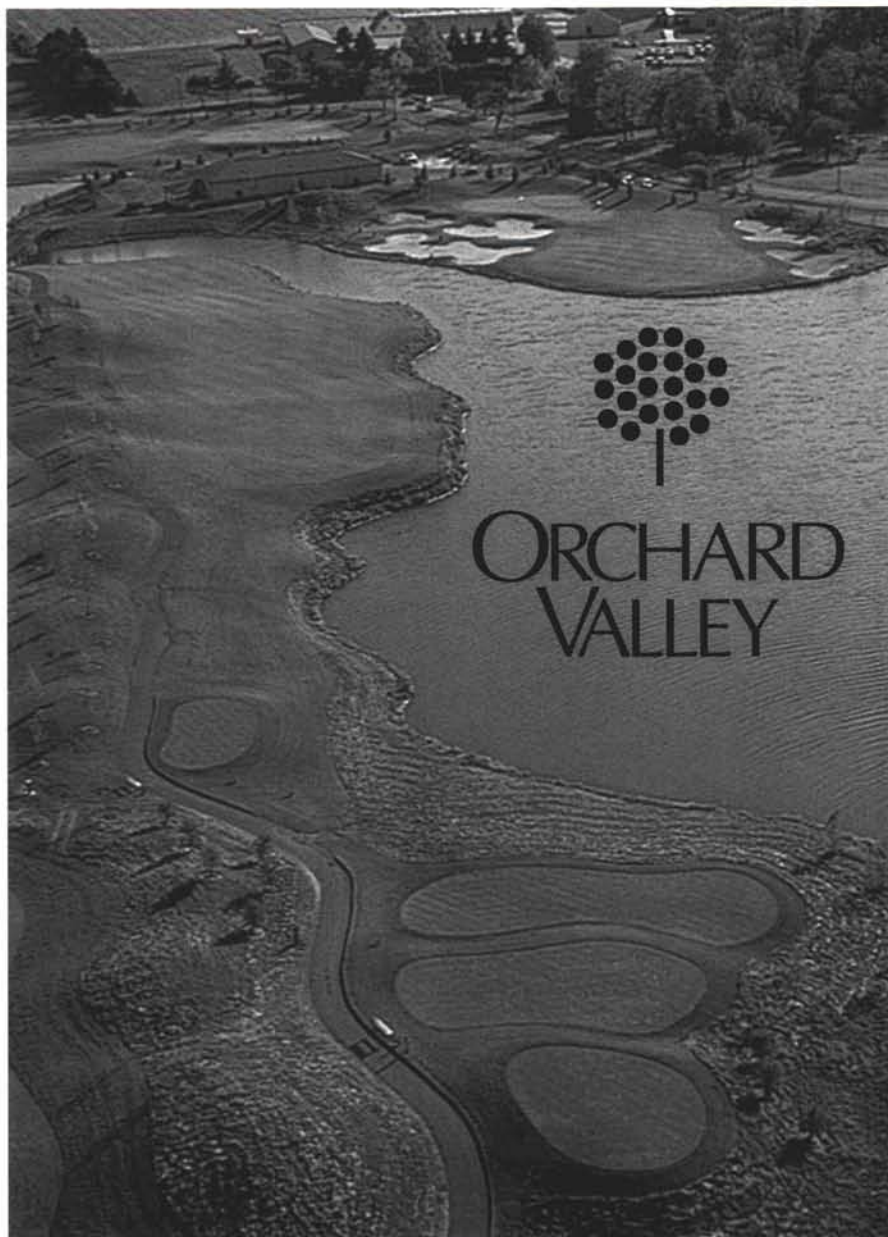


*by Paul Yerkes
LESCO, Inc.*

Just when you think the fireworks are over, they'll continue. July 7 at Orchard Valley G.C., Jim McNair, CGCS, is happy to extend the 4th of July weekend by hosting the MAGCS golf event.

Orchard Valley, owned and operated by the Fox Valley Park District, was built in 1992 and opened for play in July of 1993. Designed by Ken Kavanaugh, the course features several different looks. With 50 acres of wetlands, there'll be several demanding tee shots, while the seven-acre waste bunker gives a few holes that "desert" look.

Jim has been at Orchard Valley since construction and prior to that was superintendent at Fox Bend for 23 years. This year, Jim's project of educating his golfers on the benefits of soft spikes has been very successful. Being a public golf course that averages 33,000 rounds a year, the golfing public wearing soft spikes will be very beneficial. Last fall, Jim took on the big task of cleaning up all of his tall fescue areas. According to Jim, the greatest reward that



15th hole at Orchard Valley. It's a layup to the left for most; but big hitters can try to carry 200+ yards of water.

comes with his present position is "being able to work at a well-designed facility."

With a bachelor of science degree in education from Bradley University, Jim has been able to mold one of the smartest crews in the Midwest. With his free time, Jim likes to bike and rollerblade with his three kids: Dan, 23, Carrie, 19, and Matt, 12. In

August, Jim will hit that half-century mark.

So, let's continue the 4th of July weekend celebration at Orchard Valley G.C. I'm sure the hospitality of Jim and the golf course staff will make that day very special! ■

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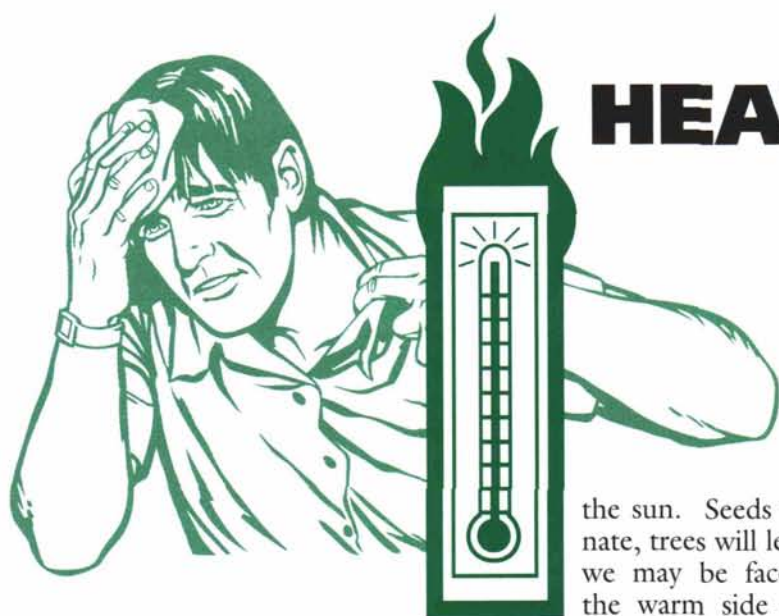
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HEAT STRESS

*Luke Cella
Pottawatomie Golf Course*

It's the middle of May as I am writing this, and there were flurries this morning. It seems like the Bears should be playing this weekend instead of the Cubs. One day soon the earth will rotate on its axis, and our Northern Hemisphere will be again closer to

the sun. Seeds will germinate, trees will leaf out, and we may be faced battling the warm side of Mother Nature. Though the warmth is something we hope to see, it will be here soon enough and so will the underestimated danger of heat stress.

I have searched the Internet for information on this topic and have found some very pertinent information. As a manager of a staff that is exposed to some

extreme weather conditions, I took an interest in what OSHA had to say about heat stress. There is no specific OSHA regulation relating to heat stress, but OSHA is able to issue a citation under The General Duty clause. The Occupational Health and Safety Act of 1970, Section 5(a)(1) states, "Each employer shall furnish to each of its employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees." This can place the event of heat stress on a higher level of importance than what we as managers have previously believed. No one of us would ever want to deal with OSHA on the topic of an employee's physical harm or death.

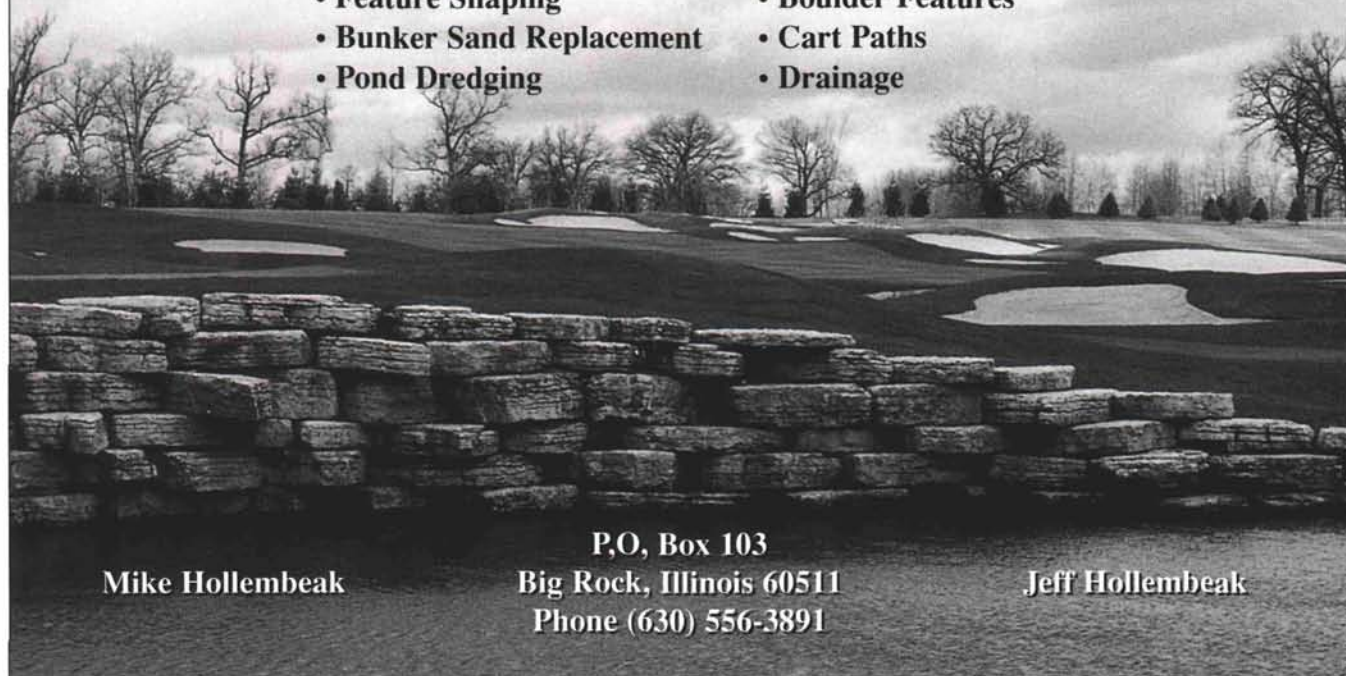
(continued on page 16)

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Heat Stress

(continued from page 14)

There are precautions and guidelines we can follow to avoid the dilemma of heat stress and our employees:

- Engineering controls, such as air conditioning and ventilation (Most of us do not have this luxury, but it can be an option for employees who are very susceptible to heat stress through a modified duty program during times of high risk exposure.);
- Administrative controls, such as work rotation, providing plenty of cool drinking fluids, scheduling strenuous labor during cooler parts of the day;
- Personal protective equipment, such as cooling vests and headbands or reflective clothing.

Most of us are aware of the National Weather Service's heat index now in place to alert the public when the combination of heat and humidity make weather hazardous. Though this system was

designed for the general public, it can be a useful tool in evaluating the exposure of our employees.

IDENTIFYING HEAT STRESS

Identifying problems is a process we do everyday as turf-grass managers. Here are keys to identifying heat stress before it poses a serious threat:

- Heat rash, commonly known as prickly heat, occurs when people are continually exposed to hot and humid air, causing a rash that can reduce the body's ability to sweat and, in turn, reduce the body's tolerance to heat.

First Aid: Cleanse the affected area thoroughly and dry completely. Apply calamine or other soothing lotion to relieve discomfort.

- Heat cramps may occur after long exposure to heat. They are painful, intermittent spasms of the abdomen and other voluntary muscles and usually occur after heavy sweating towards the end of the workday.

First Aid: Rest and drink plenty of water or an electrolyte drink.

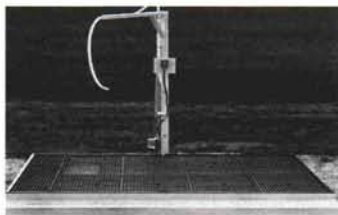
- Heat exhaustion may result from physical exertion in hot environments. Symptoms may include profuse sweating, weakness, pallor, rapid pulse, dizziness, nausea, headache, vomiting, and unconsciousness. The skin is cool and clammy with sweat, and the body temperature may be normal or subnormal.

First Aid: Rest in the shade or a cool place and drink plenty of water or an electrolyte drink.

- Heat stroke is a serious medical condition that requires medical attention. Sweating is diminished or absent, making the skin hot and dry. Body temperature is very high (106°F or higher) and if left uncontrolled may lead to delirium, convulsions, coma, brain damage and even death.

First Aid: Douse the body continually with a cool liquid and summon medical aid immediately.

(continued on page 22)



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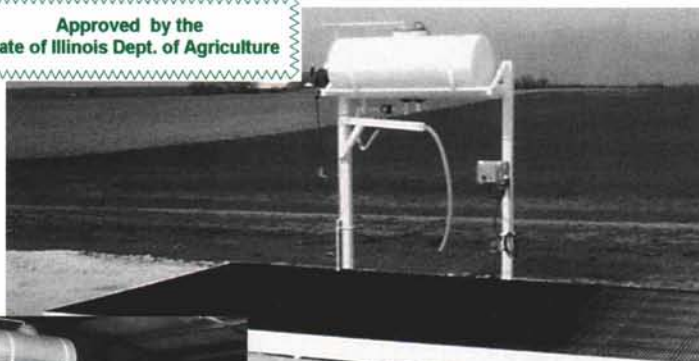
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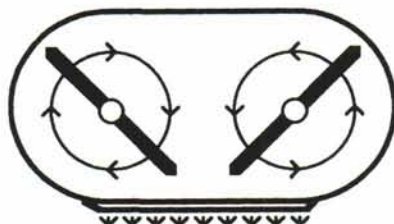
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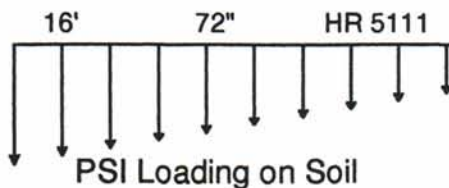
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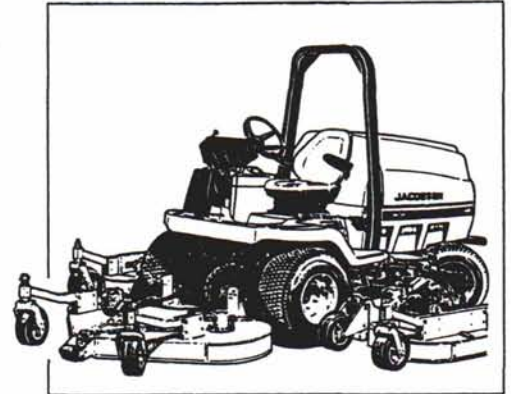
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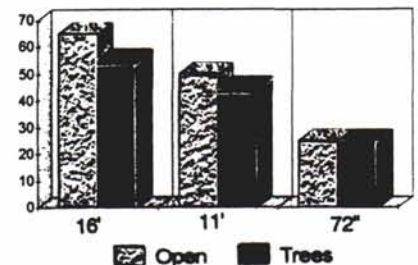


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A UST Undertaking

*Ed Fischer
Old Elm Club*

It won't be long before all of us must have our underground storage tanks updated to meet EPA standards. Whether you must replace your tanks or just update your present tanks, the cost will be substantial.

We at Old Elm Club talked about our tanks for two years; and finally in late 1995, the decision was made to remove and replace our present tanks during the spring of 1996. We were very confident that our present tanks were very sound, so the cost would be minimal. With the EPA deadline coming in 1998, we also wanted to get the job done early before that deadline arrived.

To begin with, a contractor had to be found who was certified by the state to remove USTs. We had received many advertise-

ments through the mail which we looked at, plus we also got some recommendations from others who had already removed their tanks. Cost estimates were received from five different contractors, but we also looked at



*Redigging hole in cleanup of contamination.
Portable water tank in background for excess water.*

their reputation, making sure that they all were state certified.

Our selection of EarthWorks, Inc., from Zion, Illinois, was made. The contractor then began the process by filing for the neces-

sary permits from the state fire marshal's office. EarthWorks had to make sure that the tanks were clean per API recommended practices. All piping had to be removed and disposed of properly, the tanks had to be disposed of correctly, a soil test had to be submitted for analysis, and the voids had to be backfilled.

After checking all the paperwork and making sure the USTs had been properly registered, the fire marshal then issued a permit to remove the tanks. After the permit was issued, the contractor then asked for a removal date. This was done so that a state fire marshal would be there to inspect the site while the tanks were coming out of the ground.

May 22, 1996, was the date that the fire marshal's office gave us for removal of our tanks. EarthWorks began digging the holes for removal. The tanks came out of the ground and were found to be sound. We were very pleased; our project was going according to plan.

The fire marshal arrived after the tanks had been removed from the ground. She inspected the tanks and found them to be sound. She then went over the open holes, saw that there was a lot of ground water, and proclaimed, "The site at Old Elm as a major spill." SURPRISE!!

If you remember, the spring of 1996 was very, very wet. Trying to explain to the inspector why there was so much excess water was a waste of time. There wasn't anything that I could say to change her mind. We were a major spill, and it must be properly cleaned up.

(continued on page 20)

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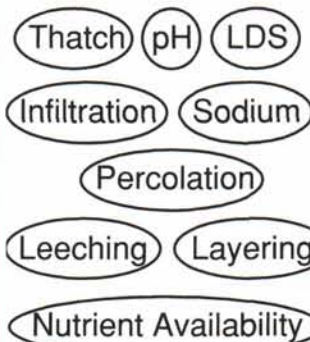
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A UST Undertaking
(continued from page 18)

EarthWorks took their soil samples and then closed the holes on a temporary basis. We then needed to notify the Illinois State Fire Marshal's office of the spill and get an incident report number. The fire marshal's office then reported to the state EPA, and the time clock started to run. There were 22 days before the first report had to be filed, but how and where? So many questions. EarthWorks suggested we get a consultant who would file all the reports and oversee the entire cleanup project.

I reported back to our board, and the decision was made to hire a consultant who would then be able to make all the proper reports on time and send

them to the correct offices. A couple of suggestions were made as to the company which should help us; and after talking with Miller Environmental Management from Gurnee, Illinois, they were hired to help solve our problem.



First process of digging hole to pull 1,000-gallon heating oil tank.

Mike Miller's first job was to get the 22-day report to the EPA. With that report having been

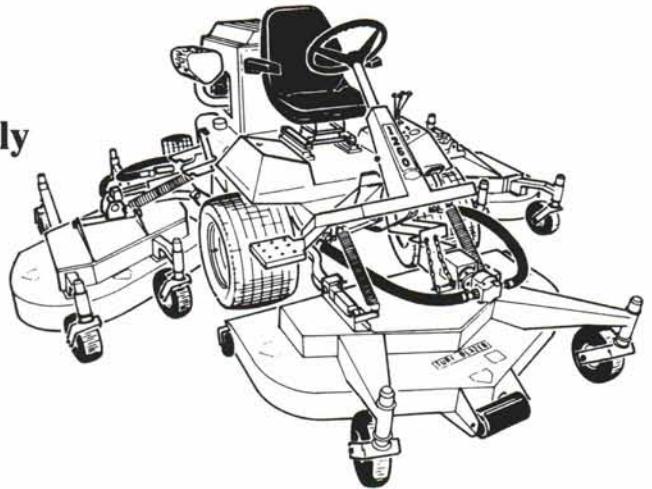
filed, the next job was to analyze the original soil test results. Looking at the report, Miller's thoughts were that the contamination wasn't too bad. The original thought was that the cleanup could cost anywhere from \$30,000 up to who knows, depending upon the severity of the contamination; but with the favorable test results, Miller felt that our costs would remain fairly low. Miller then began the process of hiring a contractor to remove the soil, haul it to a dump site, and backfill the holes. He also had to find a dump site to take our material. With our test results, one was found in the area, so hauling costs could be kept at a minimum.

Other equipment was brought in, such as a large portable tank to pump any excess

(continued on page 28)

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