



MEMORANDUM

TO: Mayor Roberts and City Councilmembers

FROM: Jessica Simulcik Smith, City Clerk

DATE: May 16, 2017

RE: Documents received at 5/15/17 Council Meeting

CC: Debbie Tarry, City Manager
John Norris, Assistant City Manager

Attached hereto are documents received from the public at your May 15, 2017 City Council Regular Meeting.

- 1) Invitation to Armed Forces Day celebration submitted by Ray Coffey.
- 2) Pictures of crumb rubber at Kellogg Middle School playfield on an 80 degree day submitted by David Anderson.
- 3) Written comment regarding "Interim Recycling Facility" submitted by Greg Logan.
- 4) Materials regarding crumb rubber submitted by Lauren Johnson.

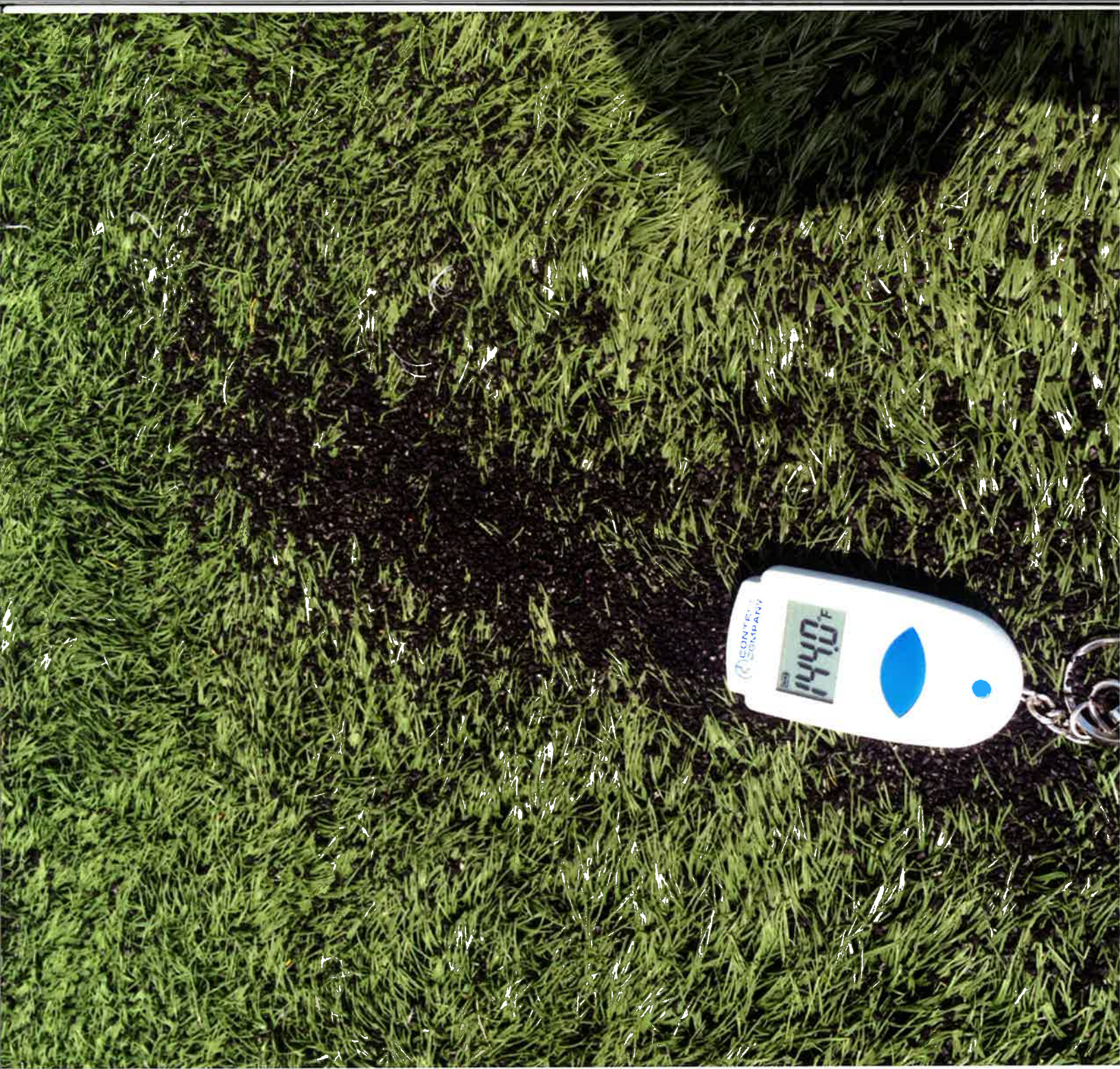
The Shoreline Veterans Association in partnership with
The City of Shoreline presents

AN ARMED FORCES DAY CELEBRATION



- **The public is invited** to attend an Armed Forces Day celebration, beginning at **11:00 am Saturday, May 20, 2017.**
- The celebration will be held at the **Shoreline City Hall, located at 17500 Midvale Avenue N in Shoreline.**
- A new stone marker for the **Veterans Recognition Plaza** has been installed and will be dedicated. The Plaza is on the north lawn of City Hall.
- Attendees will hear a talk about **the Tuskegee Airmen.** These African-American pilots served when the US military was segregated. As fighter pilots, they flew about 1,500 missions during WW II and became known as the Red Tails. They received the Congressional Medal of Honor for sinking a German warship. **Karen Robinson,** daughter of the late Leroy Robinson who was one of the Tuskegee Airmen, will speak on The Tuskegee Airmen and their Foundation.





**Shoreline City Council Presentation
Clarifications
2017.05.15**

1. Nature of Implement and Noise Impact of Back-hoe/Loader activity

- a. Implement being used >> Bucket
- b. Nature of Noise Impact – Heavy Equipment Engine Jamming and Banging.
 - i. VERY audible inside our homes with the doors/windows closed.

2. Basis for a Use in an R-4 Zone

- a. The area that the Highlands in engaged in this use is an R-4 zone. So the issue has to be – on what legal basis are they able to engage in a USE other than an R-4 use.
- b. Great question. Let's review the SMC –

Table 20.40.140 Other Uses

NAICS #	SPECIFIC USE	R4- R6	R8- R12	R18- R48	TC- 4	NB	CB	MB	TC- 1, 2
GOVERNMENT									
9221	Court						P-i	P-i	P-i
92216	Fire Facility	C-i	C-i	C-i	C-i	P-i	P-i	P-i	P-i
	Interim Recycling Facility	P-i	P-i	P-i	P-i	P-i	P-i	P-i	
92212	Police Facility					S	P	P	P
92	Public Agency Office/Yard or Public Utility Office/Yard	S-i	S-i	S	S	S	P	P	
221	Utility Facility	C	C	C	C	P	P	P	P

P = Permitted Use

P-i = Permitted Use with Indexed Supplemental Criteria

**Subchapter 3.
Index of Supplemental Use Criteria**

20.40.200 Purpose.

The purpose of this subchapter is to list alphabetically various uses or activities with supplemental criteria applicable to that use or activity. (Ord. 238 Ch. IV § 3(A), 2000).

-I-

20.40.420 Interim recycling facility.

A. Interim recycling facilities in the residential zones shall be limited to drop box facilities that are accessory to a public or community use such as a school, fire station or community center.

B. In NB and CB zones all processing and storage of material shall be within **enclosed buildings**, except drop box facilities for the collection and temporary storage of recyclable materials. Yard waste processing is not permitted. (Ord. 654 § 1 (Exh. 1), 2013; Ord. 238 Ch. IV § 3(B), 2000).

HEARING EXAMINER FINAL DECISION

1. HEARING EXAMINER FINDINGS OF FACT

41. An "interim recycling facility" is permitted by the SMC in the R4 zone if it is limited to "drop box facilities accessory to a public or community use such as a school, fire station or community center." SMC 20.40.140 and .420.

42. "Recyclable material" is defined in the Code as a "nontoxic, recoverable substance that can be reprocessed for the manufacture of new products." SMC 20.20.044.

2. HEARING EXAMINER CONCLUSIONS

11. Under SMC 20.40.140 and .420, drop boxes for interim recycling of source-separated materials are a permitted use of the project site, as they will be accessory to a maintenance/meeting/storage use on the site, which would qualify as a "community use," i.e., a use for the benefit of the Highlands community.

12. Although the size of drop boxes is not prescribed by the Code, the proposed yard waste recycling function on the site will utilize trailers sufficiently small to qualify as drop boxes, as that term is commonly understood. The use of such drop boxes for yard waste recycling is also an interim recycling facility and permitted in residential zones under SMC 20.40.140 and .420.

CITY OF SHORELINE REVISIONS TO ORIGINAL CONDITIONS

1. REVISED CONDITION #1 - BACK-HOE/LOADER GREEN WASTE RECYCLE JAMMING

a. Paragraph added Spring 2016 -

- Landscape waste drop-box located outside the 200 foot setback and compression by a backhoe is a necessary function of the drop-box to fill the containers *as a permitted function of the utility yard*. You have indicated that this activity is limited to 45 minutes in the morning and 45 minutes in the afternoon to minimize the duration of the activity. [italics added]

BLACK RUBBER CRUMB

CAUTION:

AVOID CONTACT WITH SKIN AND EYES. CAN CAUSE IRRITATION. AVOID BREATHING VAPOR. USE IN A WELL VENTILATED AREA. MAY CAUSE COUGHING AND LUNG IRRITATION. IF SKIN CONTACT OCCURS WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF EYE CONTACT OCCURS RINSE IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. FOR FURTHER PRECAUTIONARY HANDLING INFORMATION PLEASE REVIEW MATERIAL SAFETY DATA SHEETS (MSDS). FOR COPY OF OF MSDS CALL 800-999-6841.

Toxic Chemicals

Study after study has found that crumb rubber contains dozens of toxic chemicals such as:

- *Volatile and semi-volatile organic compounds (VOCs and SVOCs). Examples include:*
 - **1,3-Butadiene:** Known human carcinogen. Long term exposure associated with cardiovascular disease.
 - **Benzene:** Known human carcinogen. Developmental toxicant, reproductive toxicant. Can cause bone marrow failure.
- *Respiratory, skin and eye irritants. Respiratory irritants can cause asthma attacks. Examples include:*
 - **Benzothiazole:** Skin and eye irritation, harmful if swallowed.
 - **4-(t-octyl) phenol:** Corrosive and destructive to mucous membranes.
- *Heavy metals such as lead and chromium*
- *Phthalates*

The List

University of Washington soccer coach Amy Griffin has been compiling a list of young athletes who have developed cancer. As of January 2016, there were 203 athletes on the list, 159 of which were soccer players; 97 of the soccer players were goalies. The 203 reported cancers included **83 lymphomas** and **40 leukemias**. The predominance of lymphomas and leukemias is important because **1,3 butadiene is connected to lymphoma and benzene is connected to leukemia**. The ratio of lymphomas to leukemias is also the **opposite** of what is typically observed in this age group.

It has been theorized that goalies have an elevated exposure to the toxic chemicals in crumb rubber because they repeatedly dive into the turf during drills.

Toxic Particles

The background shows a magnified picture of crumb rubber particles and a 1 mm rubber crumb on a piece of white paper. Note the relative sizes.



- MSDS safety sheets recommend minimization of exposure by preventing contact with skin and frequent hand washing. N95 masks are recommended if dusting occurs. Note the dust wiped off the soccer ball in the picture above.
- Crumb rubber infill contains a significant amount of fine particulate matter (PM 2.5, PM 10 and carbon black) that can be inhaled deep into the lungs.
- Fine particulate matter can remain in the lungs for months. The higher bioavailability of the toxicants in particulate matter makes inhaled crumb rubber particles especially concerning.
- Some newer tires contain carbon nanotubes which may cause lung cancer in the same way asbestos does.
- Approximately 30% of a tire is carbon black. A significant portion of the fine respirable particles in crumb rubber infills may be carbon black. Research from air pollution studies demonstrates that exposure to carbon black in air pollution is linked with neurological impairment including ADHD and decreased IQ.

Unanswered Questions

There are no long-term studies of the effects of crumb rubber exposure on human or animal health.

- Are rates of cancers in young people who have been exposed to crumb rubber playgrounds and playfields higher than those who have not?
- Have schools that have installed loose crumb rubber play surfaces seen an increase in learning problems in students?
- How frequently do children have asthma attacks caused by crumb rubber? How frequently must children take medicine before using the play surfaces in order to prevent attacks? How many children must avoid them all together?
- How much fine particulate matter are children inhaling when they play on these surfaces and what is the toxicity of that matter?
- How do goalies' drills affect the type and degree of crumb rubber exposure they receive?

What can we do?

- An ounce of prevention is worth a pound of cure.
- Children's growing minds and bodies may be more affected early in their development. In addition, children have longer to live than adults so any damage done has longer to become manifest. The risks are much higher with children than adults. **We should minimize children's exposure to toxic chemicals.**
- Crumb rubber contains a complex mixture of toxic chemicals. Little is known about health effects of many of these organic compounds. Virtually nothing is known about long term effects of mixtures of these compounds. **We should start tracking cancers, diseases, illnesses, and chemicals in the playfields or it will take decades before the results of this unsanctioned human experiment are fully known.**

"Safe to play on means something to parents that I don't think we intended to convey and I don't think we should have conveyed."

Elliot F. Kaye, Chairman of Consumer Products Safety Commission

"Not surprisingly, the shredded tires contain a veritable witches brew of toxic substances. It seems irresponsible to market a hazardous waste as a consumer product."

Gaboury Benoit, Ph.D., Yale Professor of Environmental Chemistry and Engineering

"How did we get ground-up rubber waste tires put where our children play when we know that tires are filled with carcinogens and other toxic chemicals?."

Nancy Alderman, President of Environment and Human Health, Inc.

"We know that ground up tires contain carcinogens and that kids get covered in the little pellets when they play. It's time to use the available safer alternatives."

Laurie Valeriano, Executive Director, Washington Toxics Coalition

IF YOU MUST USE ARTIFICIAL TURF FIELDS, THESE PRECAUTIONS WILL REDUCE YOUR RISK.

The CDC Health Advisory warning the public of potential exposure to lead in artificial turf suggested field managers consider posting signs indicating that:

"1. After playing on the field, individuals are encouraged to perform aggressive hand and body washing for at least 20 seconds using soap and warm water.

2. Clothes worn on the field should be taken off and turned inside out as soon as possible after using the field to avoid tracking contaminated dust to other places. In vehicles, people can sit on a large towel or blanket if it is not feasible to remove their clothes. These clothes, towels, and blankets should be washed separately and shoes worn on the field should be kept outside of the home.

3. Eating while on the field or turf product is discouraged.

4. Avoid contaminating drinking containers with dust and fibers from the field. When not drinking, close them and keep them in a bag, cooler, or other covered container on the side of the field."
(CDCHAN-00275-2008-06-18-ADV-N)

While the above CDC recommendations were based on lead in the turf itself, it should be noted that the crumb rubber may also contain lead as well as other toxic chemicals.

Additionally, others have recommended that goalies, if possible, do practice drills on grass. Otherwise, goalies may want to follow MSDS guidelines and use protective clothing and masks when doing drills.



Washington Alliance for Non-toxic Play and Athletic Fields (WANPAF) is dedicated to supporting safe, non-toxic playing surfaces for the children in our state. We invite you to join with us in finding the safest play surface materials, educating fellow parents and community members on the subject, and advocating for long term studies to determine what materials are the safest for our kids to play on.

WANPAF is a member of the national Safe Healthy Playing Fields Coalition.

For more info visit WANPAF.org

And

Safehealthyplayingfields.org

FactsOnCrumbRubber.org

Lauren Johnson

Hi my name is Cade and I live in Edmonds and i'm here to talk about crumb rubber on fields

You know what I think is wierd? Why aren't kids asked what kids think about playing on crumb rubber. They are the ones who are actually using the fields the most maybe they didn't know how bad it was and then learned and regretted playing on it

Before my parents learned how bad crumb rubber was, I played on fields with it. I played lacrosse which is a sport I really love. Playing on fields was fine except in the summer they smelled like stinky tires and they would get really hot. Also after playing there were black smudges on my jersey and pieces and they would stick ever where in the car and then around the house and that is not fun to clean up.

A few years ago my Mom learned that playing tires might be a bad thing. Since then I have started playing sports that are not on fields like swimming basketball, but I would love to play lacrosse again.

My Mom has been working hard to tell others about the bad things in crumb rubber and to try and make it so we have more fields without it in our area. I really hope you choose something else so kid can play without worrying about getting sick. i've read about environmental pollution and one of the things i've learned is that tires are a part of this problem. So i'm wondering why you want kids to play on something that that pollutes the environment? I know that crumb rubber is ground up into tiny piece and that is a bad thing because the dust is more likely to get in your lungs

I just read about a study done by two 8th graders in minnesota, who won a prestigious award at the state state science fair last month. They studied the toxic effects of rubber mulch also know also known as crumb rubber on plant life and tiny fish called dafina. The fish are on the bottom of the food chain in streams, rivers, and other bodies of water. In both studies they found the residue from the rubber, which is the oil and the dust running of, to be harmful and ended up killing most of the fish and plants.

I understand that there are environmentally critical areas, including ponds, near these fields. It does not seem like a good idea to put old tires near these areas. Especially with the studies showing it can kill plants and fish

But most of all i agree that health should be more important than money. Really, isn't it worth it to spend more and be confident that you are not risking kids or wildlifes health. Please do the right thing ,

thank you!

Cade