City Manager's
Status and Information Update
October 4, 2019

THE CITY OF WATERTOWN NEW YORK

Engineering

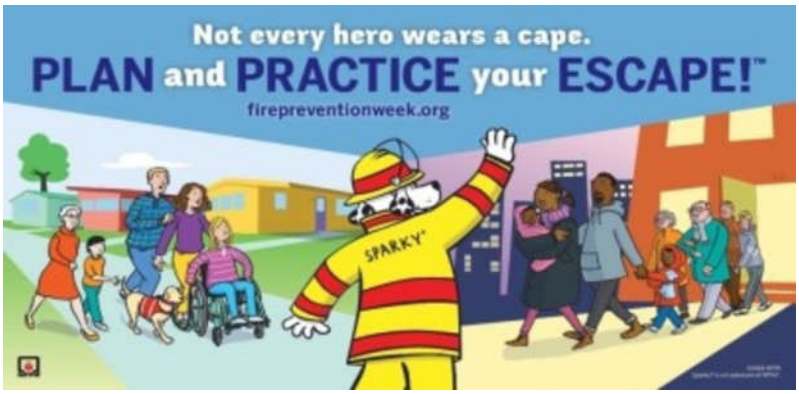
Black River Parkway/Commerce Park Drive

Reconstruction of the ADA sidewalk ramps will began on Monday. Manhole and catch basin work on Black River will be complete early next week.

Newell Street HVAC Replacement

Ontario HVAC Solutions installing new duct work

Fire Department



October 6 through the 12 is National Fire Prevention Week with this year's theme of **"Not every hero wears a cape, plan and practice your escape!"**

City Manager's
Status and Information Update
October 4, 2019

THE CITY OF WATERTOWN NEW YORK

Recent tragic fire events should reinforce the need for working smoke detectors so that occupants can be alerted to a fire and have the ability to escape to a safe meeting place. Newly built homes require a smoke detector in each sleeping room, outside of sleeping rooms and a minimum of one on each level of the home. It is not only important to have both smoke and carbon monoxide detetors, but to ensure that they have working batteries and are tested monthly.

There are currently many fire safety events on the department calendar for the month of October that include engine house tours, fire safety trailer and fire engine visits. Recently we learned that the Fort Drum safety trailer is out of service and we are attempting to cover the events that they used to participate in with our resources. If someone wishes to schedule an event, please contact either Captain Naklick or Captain Gardner at 315-785-7800.

On October 8th, department members and retireees will be traveling to Albany as Retired Fire Battalion Chief David Lachenauer's name will be unveiled on the NYS Firefighters Memorial Wall. The memorial, photo below, depicts two firefighters helping a brother firefighter get away from the wall in the background that has the names of all of NYS firefighters who have died in the line of duty. Department members whose names already appear on this memorial wall include: Captain Car Lucas, Captain Donald Butterfield and Firefighter Clarence Lamora.

The department will be having our annual awards night on Wednesday October 16th at 6:30 pm at the Massey Street Fire Station. Members who have demonstrated professionalism and courage will be recognized at the event. Members of Council and the public are welcome to attend.

Human Resources

On September 20, 2019 the Thompson Park playground was professionally tested to gauge ADA accessibility and fall protection. This testing involved 2 inspectors from Zeager Bros. and took almost 4 hours to complete. A copy of the completed report has been included at the end of the status and information update. As you'll see from the report, the Thompson Park playground meets accessibility standards, including the use of proper surfacing material, and fall protection standards. The minor issues with slope and cross slope in certain areas were addressed and re-inspected to ensure complete accessibility. Those issues were present at the exits of slides and underneath swing areas. As children use these pieces of equipment, they tend to kick out the engineered wood fiber which then causes issues with slope and cross slope. As recommended in the report, the Parks and Recreation Department is seeking rubber wear mats for these locations to help maintain accessibility and reduce maintenance efforts.

City Manager's
Status and Information Update
October 4, 2019

THE CITY OF WATERTOWN NEW YORK

On Thursday, October 3rd the Jefferson County Workforce held an open recruitment event for the City. Representatives from Human Resources and DPW were on hand to meet with applicants for various positions in DPW. The event was well attended and the City met with 20 applicants for the various positions. This was the City's first recruitment event with the Workforce and we hope to utilize them again in the future.

Library

Parks and Recreation

The Parks and Recreation Fall Ball programs is underway. The program has over 55 kids registered. Their games are played Thursday and Friday night until October 24th. This program gives kids the opportunity to come out and play recreation baseball, practice their skills and have fun! This is also an idea that was brought to us by one of our volunteer coaches and continues to thrive in its 4th year of existence.

City Manager's
Status and Information Update
October 4, 2019

THE CITY OF WATERTOWN NEW YORK

NRPC Conference

Parks and Recreation Assistant Superintendent Scott Weller attended the Annual National Recreation and Parks Conference last week in Baltimore. Not only was he able to network with other municipalities, he also brought back some great revenue generating ideas that they department is going to look at implementing in the next fiscal budget.

<u>Planning Department</u>

Bus Shelter Installation

City Crews from the Department of Public Works installed a new bus shelter at the Salvation Army property on State Street this week. The project included a concrete pad for the shelter and the replacement of several sidewalk blocks to meet ADA accessibility requirements. The City paid for the shelter using Community Development Block Grant (CDBG) funds. The Salvation Army stop is on CitiBus's A-1 State Street route, which also serves several multifamily apartment complexes on the City's east side. Now that the project is complete, Planning Staff will seek reimbursement for the project expenses from HUD.

City Manager's
Status and Information Update
October 4, 2019

THE CITY OF WATERTOWN NEW YORK

Police Department

Promotions

Detective Joseph A. Giaquinto was promoted to the rank of Sergeant and is assigned to the Criminal Investigation Division. The promotion was effective October 2. Det. Sgt. Giaquinto was hired as patrol officer on October 1, 2007. He was promoted to detective on August 22, 2016 and assigned to the Criminal Investigation Division as a general crimes detective. He is a police training instructor, crisis negotiator and former field training officer.

Patrol Officer Matthew D. Preedom was promoted to Detective and assigned to the Criminal Investigation Division as a general crimes detective. The promotion was effective October 3. Det. Preedom was hired as patrol officer on September 24, 2010. He is police general topics instructor, defensive tactics instructor and a former field training officer. He is also a member of the department's tactical team.

New Hires

The five new WPD recruit officers were sworn-in this morning and will begin the "Black River/St. Lawrence Valley Police Academy" on Monday, October 7th. The academy is operated by the Watertown Police Department and will be conducted at Jefferson Community College. This will be the third consecutive police academy class to be hosted at the JCC campus.

Neighborhood Watch

WPD Officer Shane Ryan has been assigned as the first NW liaison officer. We encourage any NW groups to make contact with Officer Ryan by email at sryan@watertown-ny.gov. He will be available to attend NW group meetings and will assist with communication between WPD and NW groups.

INSTUMENTED SURFACE INDENTER TEST REPORT FORM

FIRMNESS AND STABILITY TEST & ACCESSIBILITY EVALUATION

09/26/19

TEST INSTITUTION

Name: Zeager Bros., Inc.
Address: 4000 East Harrisburg Pike
Middletown, PA 17057

Operator: Jeff Mrakovich
Data recorder: Chris Martin

ROTATIONAL PENETROMETER

Manufacturer: Beneficial Design
Serial number: 16
Date of last calibration:
Tire pressure set at 36 psi by : JM

TEST SURFACE

Location: Thompson Park - Watertown, NY
Type: Engineered Wood Fiber
Depth: 5-12 yr old area- 13-14"
n/a
Manufacturer: Palawood
Mfr. Lot no.: Not known
Date of mfr.: Not known

TESTING CONDITIONS

Temperature °F: 60F- 72F
Relative Humidity %: 60%
Playground Surfacing Moisture Content: 48%

If the temperature is more than 10 °F different than the temperature at the tire pressure check, re-inflate tire before starting to test.

COMMENTS

The surface was originally installed 2 years ago. That brand was Woodcarpet.
Since then the surface has been topped off with Palawood brand EWF.

Notes:

An Instrumened Suface Indenter (formerly referred to as a Rotational Penetrometer) was used for field testing compliance with ASTM F1951 based on research by Beneficial Designs (Axelson & Hurley (2018). (See attached)
FIRMNESS: For field testing, surfaces passing ASTM F1951 straight propulsion for results less than or equal to 1.0 surface versus ramp work ratio shall have a firmness average, as tested with the rotational penetrometer not to exceed 0.5 inches (1.270 cm) penetration.
STABILITY: Surfaces passing ASTM F1951 turning propulsion for results less than or equal to 1.0 surface versus ramp work ratio shall have a stability average not to exceed 1.0 inch (2.540 cm) of penetration.

Playground Surfacing Evaluation Protocol:

The purpose of the playground surfacing evaluation is to identify issues of non-compliance with the 2010 ADA guidelines to enable the playground owner to make corrective actions to the surface such as top dressing, raking level and / or compacting loose fill surfacing , or patching and resurfacing unitary surfaces. The frequency and schedule for playground surface assessment and maintenance to the playground surface is at the discretion of the playground owner. For loose fill surface systems, more frequent assessment and maintenance will be necessary to maintain the accessible routes and clear floor spaces at accessible components. Ground surfaces shall be inspected and maintained regularly and as frequently as necessary to ensure continued compliance with the ADA guidelines. Check with your supplier for more guidance for your particular type of surfacing.

Tools

Site Plan	Measuring Tape	Ladder
Digital Level	Triax Impact Test Unit	Thermometer
Straight edge	Phone Camera	Marking flags
Playground Inspection Forms	ISI Instrument	

1. Generally, the following locations are recommended for visual inspection to determine compliance of the playground surface at a variety of play components:

1. Entry to playground where playground surface starts
2. Accessible routes connecting accessible elements.
3. Egress point of slides.
4. Entry point(s) to composite structure(s) transfer platforms.
5. Climber(s)
6. Ground level play components such as spring rockers, play tables, interactive panels
7. Swings
8. Sliding poles
9. Other areas (i.e water play elements, etc.)

2. Each evaluation page will have a corresponding picture of beginning of route and end of route. Arrows show direction of route. 5 readings for firmness & stability will be taken as well as slope measurements.

3. The following shows the characterisitic of the surface looked at and section # from ADA guidelines:

1. Clear width of route = 60" (ADA 2010- 1008.2.4.1)
2. Running and cross slope measurments of route: <6.25%/<2.08% (ADA 2010- 1008.2.5.1)
3. Openings in route must be less than 1/2" dia. (ADA 2010- 302.3)
4. Vertical changes in level along route less than 1/4"/1/2" beveled (ADA 2010-303.2)
5. Clear Floor Space at play component is at least 30"x48" and 2.08% level in all directions (1008.4.2)
   Is surfacing maintained for transfer at play component (11-18" above surface) ADA 2010-1008.3)

4. Complete field test with the ISI measurment tool for firmness and stability and impact testing under ASTM F3313 for field impact testing (fomerly F1292) to be sure surface is compliant to impact safety.

5. If surface is EWF or Loose fill rubber - a sample is taken to test for seive compliance per ASTM test methods - For EWF - ASTM F2075, for loose fill rubber - ASTM F3012.

6. Submit findings to playground owner/ maintenance crew to make timely corrective action.

Firmness and Stability test measurments: Record readings to the nearest hundreth of an inch (0.00).

5-12 year old area:

Route from pavement to harness swing - Passed					
Date:	09/20/19				
Time:	10:09 AM				
Test Reading	Firm.	Stabl.	Test Reading	Running slope <6%	Cross slope <2%
1	0.34	0.81	1	0.50%	0.35%
2	0.30	1.06	2	2.35%	0.35%
3	0.39	0.69	3	0.60%	1.90%
4	0.29	0.66	4	0.60%	0.20%
5	0.31	1.06	5	4.45%	1.70%
Average	0.326	0.856	Average	1.70%	0.90%
Std.Dev.	0.0361	0.1740	Std.Dev.	1.54%	0.74%

Notes: Cross slope on test reading #5 under swing had an original reading of 4.2% but was repaired and brought into compliance. A wear mat is recommended in order to keep clear floor space at less than 2% level.

Start of access route tested

End of access route tested

Route from transfer platform to double slide exit- Passed					
Date:	09/20/19		Date:		
Time:	10:25 AM		Time:		
Test Reading	Firm.	Stabl.	Test Reading	Running slope <6%	Cross slope <2%
1	0.36	1.20	1	0.80%	1.65%
2	0.25	0.56	2	1.55%	1.50%
3	0.33	0.59	3	1.65%	1.55%
4	0.27	0.76	4	2.90%	1.90%
5	0.28	0.93	5	4.40%	1.75%
Average	0.298	0.808	Average	2.26%	1.67%
Std.Dev.	0.0407	0.2366	Std.Dev.	1.26%	0.14%

Notes: Cross slope test spots #2 and #5 originally tested 2.1% and 2.2% in that order but were repaired and brought into compliance. Wear mats are recommended in order to keep clear floor space at <2% level.

Start of access route tested

End of access route tested

Change in level :

Transition from asphalt to wood fiber : PASSED					
Date:	09/20/19				
Time:	9:57 AM				
Test Reading	Firm.	Stabl.	Test Reading	<1/4" drop	<1/2" ramped
1			1		

Firmness and Stability test measurments Record readings to the nearest hundreth of an inch (0.00).

5-12 year old area:

Route from harness swing to large spinner toy - Passed					
Date:	09/20/19				
Time:	10:40 AM				
Test Reading	Firm.	Stabl.	Test Reading	Running slope <6%	Cross slope <2%
1	0.34	1.06	1	2.50%	0.45%
2	0.28	0.67	2	0.60%	0.15%
3	0.32	0.66	3	0.25%	0.15%
4	0.30	0.71	4	0.35%	0.60%
5	0.27	0.50	5	2.35%	1.90%
Average	0.302	0.720	Average	1.21%	0.65%
Std.Dev.	0.0256	0.1845	Std.Dev.	1.00%	0.65%

Notes: Cross slope on test reading #5 under swing had an original reading of 3.4% but was repaired and brought into compliance.

Start of access route tested

End of access route tested

Route from roller slide exit to transfer platform - Passed					
Date:	09/20/19		Date:		
Time:	10:56 AM		Time:		
Test Reading	Firm.	Stabl.	Test Reading	Running slope <6%	Cross slope <2%
1	0.42	0.92	1	3.05%	1.85%
2	0.35	0.96	2	4.55%	0.45%
3	0.36	0.85	3	4.10%	1.85%
4	0.32	0.59	4	4.90%	1.00%
5	n/a	n/a	5	n/a	n/a
Average	0.363	0.830	Average	4.15%	1.29%
Std.Dev.	0.1486	0.3561	Std.Dev.	1.77%	0.74%

Notes: Short route so we took 4 readings. Cross slope on test reading #1 under slide exit had an original reading of 2.5% but was repaired and brought into compliance. Wear mat recommended at slide exit to keep in compliance.

Start of access route tested

End of access route tested

Firmness and Stability test measurment-
2-5 year old play area:

Record readings to the nearest hundreth of an inch (0.00).

Slide exit to transfer platform - Passed					
Date:	09/20/19				
Time:	11:13am				
Test Reading	Firm.	Stabl.	Test Reading	Running slope <6%	Cross slope <2%
1	0.28	0.85	1	3.60%	0.35%
2	0.34	0.70	2	0.80%	0.15%
3	0.32	0.67	3	3.15%	0.10%
4	0.39	0.87	4	0.95%	1.65%
5	0.27	0.72	5	2.50%	0.15%
Average	0.320	0.762	Average	2.20%	0.48%
Std.Dev.	0.0434	0.0818	Std.Dev.	1.14%	0.59%

Notes: No repairs needed for this route. Wear mat recommended at slide exit to keep in compliance.

Start of access route tested

End of access route tested

Transfer platform to pavement - Passed					
Date:	09/20/19		Date:		
Time:	11:21am		Time:		
Test Reading	Firm.	Stabl.	Test Reading	Running slope <6%	Cross slope <2%
1	0.28	0.79	1	1.75%	1.30%
2	0.34	0.80	2	1.85%	1.30%
3	0.29	0.71	3	0.25%	1.30%
4			4		
5			5		
Average	0.303	0.767	Average	1.28%	1.30%
Std.Dev.	0.0262	0.0403	Std.Dev.	0.73%	0.00%

Notes: Very short pathway. Took 3 readings. Cross slope on test reading #1 under transfer platform had an original reading of 4.25% but was repaired and brought into compliance.

Start of access route tested

End of access route tested

Change in level :

Transition from asphalt to wood fiber : PASSED					
Date:	09/20/19				
Time:	11:12 AM				
Test Reading	Firm.	Stabl.	Test Reading	<1/4" drop	<1/2" ramped
1			1		

(no picture)

Firmness and Stability test measurments-
2-5 year old area:

Record readings to the nearest hundreth of an inch (0.00).

Route from pavement to spring rocker - Passed					
Date:	09/20/19				
Time:	10:09 AM				
Test Reading	Firm.	Stabl.	Test Reading	Running slope <6%	Cross slope <2%
1	0.33	0.70	1	2.60%	0.50%
2	0.29	0.64	2	4.20%	0.35%
3	0.31	1.30	3	3.50%	0.25%
4			4		
5			5		
Average	0.310	0.880	Average	3.43%	0.37%
Std.Dev.	0.0163	0.2980	Std.Dev.	0.65%	0.10%

Notes: Very short pathway. Took 3 readings. No repairs were made to this route.

Start of access route tested

End of access route tested

Change in level :

Transition from asphalt to wood fiber : Passed					
Date:	09/20/19				
Time:	11:29 AM				
Test Reading	Firm.	Stabl.	Test Reading	<1/4" drop	<1/2" ramped
1			1		

Impact Test Results

per ASTM F3313 (formerly F1292)

Thompson Park - Watertown, NY

Explanation of Peak and HIC criteria: The test performed to achieve the test results herein are from the ASTM F3313 standard test method which specifies impact attenuation performance requirements for playground surfaces as tested in the field. ASTM F1292 is no longer a valid impact test method for "in the field " impact testing for playground surfaces. This test method simulates the impact of a child's head with the surface. The test method quantifies impact in terms of "G-max" referred to as "Peak Gmax" and Head Injury Criteria (HIC) scores. G-max is the measure of the maximum acceleration (shock) produced by an impact. The HIC score is an empirical measure of impact severity based on published research describing the relationship between magnitude and duration of impact accelerations and the risk of head trauma. The performance criterion used to determine conformance with the requirements of this specification are a G-max score not exceeding 200 and a HIC score not exceeding 1000. (ASTM F3313-18 section 4.3.1). An average will be taken of the second and third drops at each test site.

How to read the results page(s) and the picture page(s):

Final Results page: Starting from the far left column you will see "Surface Details" which show the thickness and description of the surface tested. (Measurements are sometimes estimated by the tester or written as specified by the job plan if measurements are not attainable like thickness of stone sub base for example.) Next are the actual drop readings shown in G-Max and HIC . The 2nd and 3rd drops are averaged and are in **bold type** with a blue arrow pointing to them. These can be compared to the pass/fail criteria of 200 Gs and 1000 HIC limits. The next column shows the theoretical drop height (TDH) which is the height the head form is dropped based on a velocity calculation performed by the computer. A velocity reading can also be reported though this is calclulated to get the TDH and therefore redundant. The next column marked "Ang" is the angle the head form landed on the drop spot. This is usually 0 to 10 degrees to get an accurate reading but can be higher in some cases and still be accurate. The time and date of the drops are next followed by the actual measured height performed by the operator and the temperature of the surface. This is taken before the first drop and last drop. **A statement of Pass/Fail is located in the notes at the bottom of 1st results page.**

Following the results page is the Picture Page showing where each impact test was performed. You will see the Tri-Pod set up over the spot to be tested. Each picture has the 2nd and 3rd drop # below it so you can compare the picture with the prior results page. A bar graph is above the pictures showing how close to the failing HIC criteria limit that particular spot was to help the owner operator know what places on their playground need maintenance or repaired.

The Raw Data page follows the Picture Page showing the actual data that was dropped into the report from the hand held computer.

The last and final page shows the calibration of the unit before the test was performed which is required to be within 5% of the Gmax reading from the last time the accelerometer in the head form was calibrated. (% Highlighted in yellow)

SURFACING EVALUTION FORM

IMPACT ATTENUATION PERFORMANCE REPORT PER ASTM F-1292 STANDARD

Agency requesting test: Watertown Park & Rec Dept.
Address:245 Washington St. Watertown, NY 13601
Contact Name: Erin Gardner
Phone: (315)785-7777
Site Name : Thompson Park

Tester JSM
Logger CM

Passing Criteria
PEAK G < 200
HIC < 1000

Report Date: 9/26/19

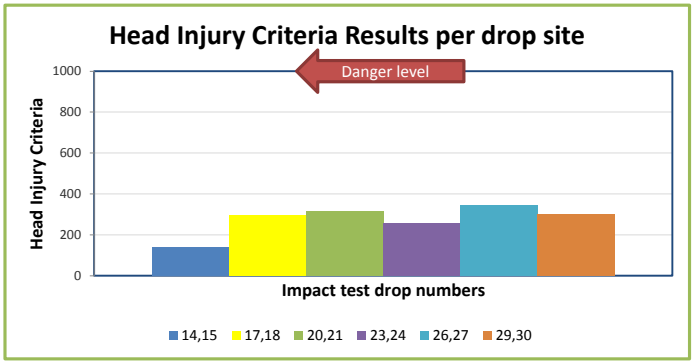
Surface details	Depth	Readings	Drop #	Theoretical PEAK G	Theoretical HIC	Drop H.	Ang	Date Time	Measured Height	Temperature	Notes
13-14" wood fiber		1	13	51	148	4'0"	6	9/20/2019 8:56	48"	57F	42" platform
over stone drainage		2	14	54	146	4'0"	4	9/20/2019 8:57	48"		Off off climbing laddr
		3	15	54	137	4'1"	3	9/20/2019 8:57	48"	57F	2" crater in fiber
Average of Drops	14,15			**54**	**141.5**						
				PEAK G	HIC	TDH			**Height**	**Temp**	
13-14" wood fiber		1	16	69	304	6'11"	5	9/20/2019 9:05	84"	56F	76" platform
over stone drainage		2	17	71	290	7'0"	6	9/20/2019 9:05	84"		Off slide deck
		3	18	75	301	7'0"	0	9/20/2019 9:06	84"	56F	
Average of Drops	17,18			**73**	**295.5**						1.75" crater in fiber
				PEAK G	HIC	TDH			**Height**	**Temp**	
13-14" wood fiber		1	19	73	328	8'0"	8	9/20/2019 9:12	96"	59F	
over stone drainage		2	20	71	315	8'0"	0	9/20/2019 9:13	96"		Swing area 1st bay
		3	21	71	318	8'1"	3	9/20/2019 9:14	96"	59F	
Average of Drops	20,21			**71**	**316.5**						1.5" crater in fiber
				PEAK G	HIC	TDH			**Height**	**Temp**	
15" wood fiber		1	22	75	276	8'1"	5	9/20/2019 9:20	96"	58F	Swing area 2nd bay
over stone drainage		2	23	68	253	8'2"	0	9/20/2019 9:22	96"		
		3	24	67	263	8'2"	9	9/20/2019 9:23	96"	58F	
Average of Drops	23,24			**67.5**	**258**						2" crater in fiber
				PEAK G	HIC	TDH			**Height**	**Temp**	
13-14" wood fiber		1	25	68	338	8'0"	6	9/20/2019 9:27	96"	61F	Swing area 2nd bay
over stone drainage		2	26	73	346	8'1"	0	9/20/2019 9:28	96"		
		3	27	78	344	8'1"	2	9/20/2019 9:29	96"	61F	
Average of Drops	26,27			**75.5**	**345**						1.5" crater in fiber
				PEAK G	HIC	TDH			**Height**	**Temp**	
13" wood fiber		1	28	69	306	7'1"	1	9/20/2019 9:36	84"	57F	Off of climbing wall
over stone drainage		2	29	68	305	7'2"	5	9/20/2019 9:37	84"		75" platform
		3	30	72	296	7'2"	1	9/20/2019 9:37	84"	57F	
Average of Drops	29,30			**70**	**300.5**						2" crater in fiber
				PEAK G	HIC	TDH			**Height**	**Temp**	
		1	0	0	0	0	0	1/0/1900 0:00			
		2	0	0	0	0	0	1/0/1900 0:00			
		3	0	0	0	0	0	1/0/1900 0:00			
Average of Drops	0,0			**0**	**0**						

DISCLAIMER : The results reported herein reflect the performance of the tested playground surface at the time of testing and at the temperature(s) and ambient conditions reported. Performance will vary with temperature, moisture content, and other factors. Since these performance variations are beyond our control, Zeager or any of its related companies do not accept any liability as a result of an injury that may occur on the playground tested.

Notes : Surface was installed originally 2 years ago. It has been topped off since then. After getting readings well below the Gmax and HIC limits, and seeing that the thickness of the wood fiber was consistant, we discontinued impact testing all the other pieces of equipment.

The surfacing met the passing criteria of ASTM F3313 (formerly F1292) for impact attenuating surfacing on playgrounds.

signature:




Drops 14-15


Drops 17-18


Drops 20,21


Drops 23,24


Drops 26,27


Drops 29,30

Drop	Peak	HIC	Feet	Angle	Date
13	51	148	4'0"	6	9/20/2019 8:56
14	54	146	4'0"	4	9/20/2019 8:57
15	54	137	4'1"	3	9/20/2019 8:57
16	69	304	6'11"	5	9/20/2019 9:05
17	71	290	7'0"	6	9/20/2019 9:05
18	75	301	7'0"	0	9/20/2019 9:06
19	73	328	8'0"	8	9/20/2019 9:12
20	71	315	8'0"	0	9/20/2019 9:13
21	71	318	8'1"	3	9/20/2019 9:14
22	75	276	8'1"	5	9/20/2019 9:20
23	68	253	8'2"	0	9/20/2019 9:22
24	67	263	8'2"	9	9/20/2019 9:23
25	68	338	8'0"	6	9/20/2019 9:27
26	73	346	8'1"	0	9/20/2019 9:28
27	78	344	8'1"	2	9/20/2019 9:29
28	69	306	7'1"	1	9/20/2019 9:36
29	68	305	7'2"	5	9/20/2019 9:37
30	72	296	7'2"	1	9/20/2019 9:37

Unit information:

Hand Held - 30-9796-1
Head Form - 30-6355
Accelerometer LW264086 Date of calibration: 8/27/2019
Tri Pod - 30-6355 Calibration due date: 8/27/2021

SYSTEM INTEGRITY CHECK

SPECIFIED PER ASTM F1292 / SEC. 10

Surface	Depth	Readings	Drop #	PEAK G	HIC	Th/Dr HT	Ang	Date Time	Drop Height	Temperature
Reference Pad #30-9764		1	10	166	809	3'0"	5	9/20/2019 8:45	36"	80F
		2	11	168	827	3'0"	5	9/20/2019 8:45	36"	80F
		3	12	169	829	3'0"	5	9/20/2019 8:46	36"	80F
Averages of readings #2 & #3				**168.5**	828					
						Th/Dr HT	Ang			
1st calibration test after calibration -8/27/2019		1	4	163	780	3'0"	5	9/11/2019 13:58	36"	
		2	5	166	805	3'0"	7	9/11/2019 13:59	36"	
		3	6	165	804	3'0"	7	9/11/2019 14:00	36"	
Averages of readings #2 & #3				**165.5**	804.5					

Peak G

Tolerance <=5% 98.0% (F1292 Section 10.6)

Raw Data from system check test 24 hrs. before testing at site:

SYSTEM CHECK RESULTS

Drop #	Peak G	HIC	Th/Drop Ht	Ang	Date/ Time	Known DH
10	166	809	3'0"	5	9/20/2019 8:45	36"
11	168	827	3'0"	5	9/20/2019 8:45	36"
12	169	829	3'0"	5	9/20/2019 8:46	36"

Enter info here

PA Office: 1-800-346-8524
FAX 717-944-7681
KY Office: 1-800-296-9227
FAX 270-586-4493

ENGINEERED WOOD FIBER SIEVE ANALYSIS REPORT

Wt: Wet Sample + Cont.	420.5	Sample Number	9261901
Wt: Dry Sample + Cont.	239.5	Tray Number	21
Weight of Wet Sample	379.1	SampleSource	Palawood manufact
Weight of Dry Sample	198.1	Date of Sample	9/20/2019
Weight of Container	41.4	Sample Person	Erin
Weight of Moisture	181.0	Sieve Analysis Tech	JSM
* % Moisture of Sample	47.7%	Date of Sieve Test	9/26/2019

Sieve Aperture		Weight Retained g/oz	Specifications		Percent Passing %
Inches/Nbr	**mm**		**% Min**	**% Max**	
3/4"	19	0	99	100	100.00%
% passing 3/4" sieve = total dry weight _____g - weight retained 3/4" sieve ____g = weight passing 3/4" sieve _____g ÷ ____ total dry weight = %					
3/8"	9.5	19.6	75.0	100	90.11%
% passing 3/8" sieve = total dry weight _____g - weight retained 3/4" sieve ____g - weight retained 3/8" sieve _____g = weight passing 3/8" sieve _____g ÷ total dry weight = %					
No. 16	1.18	168.2	0.0	15	5.20%
% passing #16 sieve = total dry weight _____g - weight retained 3/4" sieve _____g - weight retained 3/8" sieve _____g - weight retained #16 sieve _____g = weight passing #16 sieve ____ ÷ total dry weight = %					

Requirements:

* Material weight when dry should not exceed: 181g
* Oven Temp. should maintain a uniform 140± 9°F
* Consistency of product must meet sieve criteria from standard ASTM F2075 for engineered wood fiber.

REMARKS: FINES

7.9

RANDOM SAMPLE FROM Accessibility testing : PASSED Seive criteria for ASTM F2075.

Final notes from results:

Most of the EWF route areas that were measured met the passing criteria for firmness & stability as well as slope requirements for running and cross slope. The areas that had the most deficiencies were the exits of slides and below designated access swing area with harness swing.

Recommendations - Either more raking ,topping off and tamping in these areas on a regular basis is needed or install wear mats to help keep these areas compliant with clear floor space requirements - Section 1008 of ADA guidelines.

Also noted is the large ramp system installed on this playground making many of the play panels and elevated play components accessible for all who use this playground.

In my opinion , a lot of effort has been made to make this play area accessible for all abilities.

Jeff Mrakovich
Zeager Bros. Inc.