

• Consulting • Audits • Surface Testing

**Certified Playground Safety Inspector  
Disclosure Statement**

**Gary C. Groshon, Certified Playground Safety Inspector  
Playground Safety Analysts  
37 Floramar, Suite 210  
Rancho Santa Margarita, Ca. 92688**

A certified playground safety inspector (CPSI) is a playground specialist who uses his education, knowledge, training and experience to examine playgrounds, recommend measures to enhance playgrounds and equipment performance to meet current safety standards and attempt to reduce the risk to participants and/or litigation or loss for the owner/operator.

Title 22, Sections 115725 – 115750 of the California Health and Safety Code establishes the requirements for the State Playground Safety Regulations, R-39-97 (2/17/99). The playground performance standards and guidelines are found in the Consumer Product Safety Commission (CPSC) *Handbook for Public Playground Safety* Publication 325 and in the American Society for Testing and Materials (ASTM) Standard F1487-01.

*The Certified Playground Safety Inspector (CPSI) is able to perform audits, provide the basics of a sound risk reduction program, establish a system of repair, retrofit and removal of hazardous equipment, and implement a routine inspection system for their client.*

A consulting inspector cannot detect every condition that could possibly lead to the structural failure of equipment. Undetectable structural conditions can exist within equipment and/or below ground. Inspectors cannot guarantee that a playground will be safe under all circumstances, or for a specified period of time. Likewise, recommendations, like any medicine, cannot be guaranteed if they are not implemented. Improper use the playground equipment by participants or failure by the operator to repair or replace non-compliant conditions are beyond the scope of the consulting inspector's service agreement.

Playgrounds (and their inherent risks) can be substantially and reasonably managed, but they cannot be maintained in an absolutely perfect condition. To play and to offer play areas is to accept some degree of risk. There is no acceptable way to eliminate all risks.

Name of Client: Agnes Bernardo/Parks Manager  
City of Chula Vista  
1800 Maxwell Rd.  
Chula Vista, Ca 91911

**I have received and read a copy of this disclosure.**

Client Signature:

Date:

Phone: 949.292.3373 FAX: 949.713.9379  
Toll Free: (855.2875292)  
E-mail: [playgroundanalysts@cox.net](mailto:playgroundanalysts@cox.net)

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# California Park & Recreation Society

## Code of Professional Ethics

### Expected of CPSFs with Enhanced CPRS Training on California Playground Safety Regulations

This code sets forth the enhanced professional ethics expected of Certified Playground Safety Inspectors that have received supplemental training by the California Park & Recreation Society (CPRS) Playground Safety Committee on California Playground Safety Regulations (CPSR's) and optional Standardized Auditor Reporting Methods.

Certified Playground Safety Inspectors who have completed the CPRS supplemental CPSR auditor training shall, in their professional work, sustain and advance the integrity, honor and veracity of these trainings and their certifications by:

- Holding the safety of playground users paramount in all professional services.
- Utilizing the most current standards of care acceptable by following the CA Playground Safety Regulations.
- Maintaining currency and competency in playground safety auditing and inspecting procedures including use of testing tools and knowledge and criteria of current CPSR safety criteria.
- Identifying and documenting all situations which are in non-compliance with the standards of care noted in the CPSR's along with the citation of the specific reference portion of the criterion document, using the standard playground safety audit process recommended by CPRS.
- Prioritizing all identified non-compliances according to a standard norm of most likely foreseeable consequences of the non-compliance.
- Verbally advising employers or clients and the owners or providers of the playground of seriously dangerous conditions in a most prompt manner, recording and reporting all non-compliant findings from the official audit documentation in the safety audit or inspection report.
- Neither conducting a safety audit or inspection without the consent of the playground owner/provider nor making a threat regarding liability exposure if an audit is not performed.
- Never contradicting the findings of another Certified Playground Safety Inspector without first consulting directly with the first Inspector regarding the basis for the findings in question.
- Never conducting a safety audit or inspection of a playground with the intent to discredit the playground provider, a manufacturer or to promote sale of equipment or products.
- Never providing findings of an audit or inspection to anyone other than the playground owner or provider unless authorized by the owner or provider having the audit performed to do so.
- CA CPSFs are expected to convey any concerns with CPRS trainings or written materials to those bodies and not to other parties or the public.
- The intent of the CPSI work in CA is to provide safe playgrounds and to support the professionals and professional organizations who are working toward this goal.

Certificants failing to practice these professional standards shall be subject to loss of professional certification upon a negative finding by a review process and enforcement procedures established by the Executive Committee of the National Playground Safety Institute.

**QUALIFICATIONS**

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**Gary C. Groshon**

**NPSI - Certified Playground Safety Inspector**

Professional Background

Actively engaged in the real property and community services industry since 1973, with specialization in municipal parks management. Currently President of Playground Safety Analysts providing playground audits, surface testing, safety inspections, ADA/ABA accessibility assessment, risk management programs, consulting and construction management.

Extensive experience in public and private sector landscape and facilities management including: budgeting, supervision, resolving citizen and tenant issues and environmental assessment, contract administration, coordinating project development and maintenance.

Mr. Groshon has been actively commissioned in both the public and private sector property management. As an independent consultant Mr. Groshon's scope of experience includes providing playground construction certifications, park and facilities management, and certified arborist consulting.

Career Positions

City of Long Beach - Bureau of Parks <b>Park Administrative Assistant</b>	Three & One Half Years
City of Lakewood - Community Services Department <b>Landscape Superintendent</b> <b>Environmental Resources Supervisor</b>	Six & One Half Years
Southern California Edison - Real Properties <b>Superintendent, Grounds Administration</b> <b>Building &amp; Grounds Coordinator</b>	Six & One Half Years
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City of Dana Point - Public Works/ Parks Division <b>Parks/Facilities Manager</b>	Six Years
Playground Safety Analysts – Inspection/Audit/Consulting <b>NPSI Certified Safety Consultant/Principal</b>	Nine Years

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# **Playground Safety Analysts**

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### Educational Activities

<b>Masters Program</b>	<b>California State University</b> , Long Beach, School of Public Policy & Administration, MBA Public Administration Core Courses
<b>Bachelor of Science</b>	<b>California Polytechnic University</b> , Pomona, School of Agriculture Department of Horticulture, Park Administration, Honors Graduate
<b>Associate of Arts</b>	<b>Orange Coast College</b> , Costa Mesa, Forestry

Has successfully completed over 1000 hour's of continuing education in horticulture science, NPSI certification, ADA/ABA accessibility, business administration, risk management and commercial real estate appraisal.

### Playground/Landscape Consulting Experience

City of San Diego, Parks/Rec. & USD	USAFB-LA CDC, El Segundo
City of Chula Vista	Ft. MacArthur CDC, San Pedro
City of Lake Forest	Willdan Engineering Services
Los Angeles Co., Parks/Recreation Svs	State of California – Dept of Developmental
LAUSD, Los Angeles	Accell Property Management, Laguna Hills
City of Dana Point	Coast Community College District, O.C.
City of Fullerton	Arbor Life Consulting, City of Palm Desert
City of Riverside	Merit Property Mgt., Irvine
City of Laguna Beach	Navy - NASNI, Amphibious Base, Coronado
	SAMLARC Merit Property Mgt., RSM

### Professional Affiliations

Certified Playground Safety Inspector #14291-0512 (National Recreation & Park Association)	Horticulture Curriculum Review Board, Cal Poly University
Certified Park Manager #135 (California Board of Park and Recreation Personnel)	Horticulture Advisory Council, Cerritos College
Certified Arborist #WE-6393A (International Society of Arboriculture)	ROP Advisory Board, Long Beach Unified School District
Candidate for MAI designation – (Appraisal Institute)	Street Tree Seminar and ISA Conference Speaker
Pest Control Advisor, License #04584 (Inactive)	101st Airborne Division - Bronze Star, Vietnam

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Name of Client: **Bindu Vaish**  
City of Rancho Palos Verdes  
30940 Hawthorne Blvd.  
Rancho Palos Verdes, CA 90275

**I have received and read a copy of this disclosure.**

Client Signature:

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City of Lake Forest	Willdan Engineering Services
Los Angeles Co., Parks/Recreation Svs	State of California – Dept of Developmental
LAUSD, Los Angeles	Accell Property Management, Laguna Hills
City of Dana Point	Coast Community College District, O.C.
City of Fullerton	Arbor Life Consulting, City of Palm Desert
City of Riverside	Merit Property Mgt., Irvine
City of Laguna Beach	Navy - NASNI, Amphibious Base, Coronado
	SAMLARC Merit Property Mgt., RSM

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## Playground Surface Impact Test Report

Bindu Vaish / Project Manager  
City of Rancho Palos Verdes  
30940 Hawthorne Blvd.  
Rancho Palos Verdes, CA 90275

Attn: Bindu Vaish / Project Manager

PSA Report No. 1577

Date of test: 10/15/2012

### Executive Summary

#### **WORK REQUESTED/TEST SPECIFICATIONS**

Field Impact Attenuation Testing for the newly installed 2-12 year old Eastview Park LSI playgrounds located in eastern Rancho Palos Verdes, CA. Composite Structure & Swings Play Area on both Unitary & Engineered Wood Fiber (EWF) Surfacing from an (8' 4"; 6' 2" & 7' 10") foot fall heights per ASTM F1292-09.

#### **REFERENCE DOCUMENTS**

ASTM F1292-09 – Impact Attenuation of Surface Systems Under & Around Playground Equipment

#### **TESTING METHODOLOGY**

Utilizing the Triax 2010 Accelerometer & Handheld Computer & Tripod; There shall be one report for each play structure or functionally linked play structures & for each type of surface material. Each test shall be comprise of a minimum of 3 impact locations per play space or type surfacing material with three drops from the same height to the same point. The report shall be descriptive enough to assist the user of the report in determining compliance with contracts & Standards. The ASTM F1292 & CSA Z614-03 set minimum values as the Gmax shall not exceed 200 & the HIC shall not exceed 1000 from the drop height stipulated by the owner/operator prior to purchase. Drop Test Height was the highest accessible structure components.

#### **CONCLUSION**

Evos Play Structure 5-12 yr old Middle Arch to ADA Transfer – Unitary Surfacing:

- The results are within ASTM 1292-09 criteria for drops from the height of 8' 4".

Evos Play Structure 5-12 Year Old Loop Ladder – Unitary Surfacing:

- The results are within ASTM 1292-09 criteria for drops from the height of 6' 2".

Swing Play Structure 5-12 Year Old Play Area – EWF:

- The results are within ASTM 1292-09 criteria for drops from the height of 7' 10".

**Surfacing Materials Report – ASTM F1292-09**

**Performance Assessment of Playground Surfacing – Reference Information**

Test Location:	Eastview Park, Evos Composite Structure & Swings 2-12 Year Old Play Area
Test Procedure:	Triax 2010 Accelerometer, Handheld Computer, Tripod, Stadia Rod, Digital Thermometer & Penetration Probe
Triax Model # Serial #	3014M2, 30-9487
Certificate #	1594
Thermometer - Extech Scientific: Visual Alarm Timer Model #	39272 8E271 Serial # 111615212
Surface Type:	Bonded Rubber w/ Playbond™ EWF
Surface Source:	Surface America
Surface Thickness: Sand Depth:	2.5" 5-12 Arch - Evos Structure; 2.5" 2-5 Loop Climber Evos Structure 12" 2-12 swings
Playground Surface Temperature: ° F	118.2° F in Rubber; 74.6° F in EWF
Drop Height Specified by original owner operator:	<b>Bindu Vaish / Project Manager</b>

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**Surfacing Materials Report – ASTM F1292-09**

**Eastview Park, EVOS Arch - Composite Structure 5-12 Year Old Play Area**

Drop Area # 1 on Unitary Surfacing Middle Arch Struture

The ASTM 1292-09 states that to calculate the results of the drop test, the first drop is to be omitted and the second and third drops averaged. The “G-Max” or peak is to be less than 200 and the HIC is to be less than 1000.

Drops # 5-7 results are as follows:

Average Peak = 142.5

Average HIC = 994

The results are within ASTM 1292-09 criteria for drops from the height of 8' 4”.



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**Surfacing Materials Report – ASTM F1292-09**

**Eastview Park, Loop Ladder - EVOS Composite Structure 5-12 Year Old Play Area**

Drop Area # 2 on Unitary Surfacing at Loop Ladder

The ASTM 1292-09 states that to calculate the results of the drop test, the first drop is to be omitted and the second and third drops averaged. The “G-Max” or peak is to be less than 200 and the HIC is to be less than 1000.

Drops # 8-10 results are as follows:

Average Peak = 111.5

Average HIC = 596

The results are within ASTM 1292-09 criteria for drops from the height of 6' 2".



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**Surfacing Materials Report – ASTM F1292-09**

**Eastview Park, Swing Structure 2-12 Year Old Play Area**

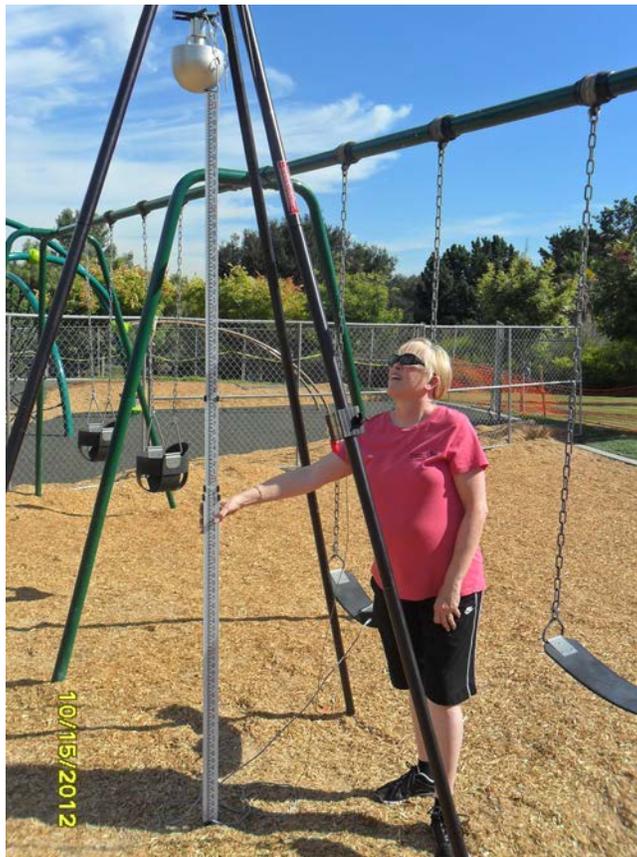
Drop Area # 3 on Engineered Wood Fiber (EWF) Surfacing at Swings

The ASTM 1292-09 states that to calculate the results of the drop test, the first drop is to be omitted and the second and third drops averaged. The “G-Max” or peak is to be less than 200 and the HIC is to be less than 1000.

Drops # 11-13 results are as follows:

Average Peak = 76  
Average HIC = 336

The results exceed ASTM 1292-09 criteria for drops from the height of 7' 10”.



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TRIAx2000 DATA ACQUISITION AND ANALYSIS REPORT

Eastview Park Playgrounds - RPV Surface Impact Tests - 10/15/12

No.	Peak	HIC	Feet	ANGLE	Date/Time	Comment
3	160	794	2'10"	14	10/14/12 10:28a	Reference Drop 3-4
4	167	874	3'1"	29	10/14/12 10:30a	
5	116	707	8'6"	9	10/14/12 10:46a	EVDS Middle Arch, Unitary #5-7
6	129	811	8'4"	15	10/14/12 10:48a	
7	157	1177	8'4"	7	10/14/12 10:49a	
8	107	587	6'2"	12	10/14/12 10:59a	Loop Ladder EVDS - Unitary # 8-9
9	109	576	6'2"	7	10/14/12 11:00a	
10	68	341	7'9"	3	10/14/12 11:17a	ERROR Record
11	72	346	7'10"	5	10/14/12 11:17a	Swing Area EWF # 11-13
12	73	313	7'9"	13	10/14/12 11:20a	
13	79	359	7'10"	3	10/14/12 11:21a	

**Surfacing Materials Report – ASTM F1292-09**

**Eastview Park, EVOS - Composite Structure & Swing 2-12 Year Old Play Area**

This test was performed in accordance with ASTM F1292-09 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. The results were obtained using a certified ASTM F1292-09 compliant Triax 2010 Surface Impact Testing device operated by a manufacturer certified technician. Certificates to substantiate this claim are available.

ASTM F1292-09 states that "Data obtained from this specification are indicative of the relative impact attenuation characteristics of the playground surface system and can be used only for comparisons and for establishing minimum requirements." It is the responsibility of the user of this report to judge its suitability for their particular purpose and Playground Safety Analysts (PSA Consulting) does not warrant the suitability of this report to any particular purpose.

Test Performed by: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

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PSA Consulting

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