



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

APPLICATION FOR HCAI PREAPPROVED AGENCY (OPAA) FOR STRUCTURAL TESTS AND SPECIAL INSPECTIONS		OFFICE USE ONLY		
		OPAA-0089		

Approved Agency	City	County	State	ZIP Code
EARTH SYSTEMS PACIFIC	BERMUDA DUNES	Riverside	CA	92203

APPLICATION TYPE
Combined Testing **AND** Special Inspection Agency

APPLICANT INFORMATION

Applicant Name Kevin Paul	Position in the Organization Principal Engineer
Agency's Local Name Earth Systems	Application Date 12/29/2023

Phone Number (951) 928-9799	E-mail KPAUL@EARTHSYSTEMS.COM
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Address of Facility Location *(Each facility location requires separate application.)*

Street
79-811B COUNTRY CLUB DRIVE

City BERMUDA DUNES	County Riverside	State CA	Zip Code 92203
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Facility Mailing Address

Street
79-811B Country Club Drive

City Bermuda Dunes	State CA	Zip Code 92203
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Key Agency Personnel

Engineering Manager - Name Kevin L Paul	CA Registration Number 70084	Expiration Date 09/30/2026
Title in the Organization Principal Engineer	Phone Number (951) 928-9799	
Alternate Phone Number (949) 698-8642	E-Mail kpaul@earthsystems.com	

Key Agency Personnel

Alternate Engineering Manager - Name	CA Registration Number	Expiration Date
Title in the Organization	Phone Number	
Alternate Phone Number	E-Mail	





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Key Agency Personnel		
Geotechnical Engineering Contact - Name	CA Registration Number	Expiration Date
Title in the Organization	Phone Number	
Alternate Phone Number	E-Mail	

Key Testing Personnel		
Testing Supervisor - Name Jose Murillo	CA Registration Number	Expiration Date
Title in the Organization Laboratory Supervisor	Phone Number (760) 345-1588	
Alternate Phone Number (760) 641-2062	E-Mail jmurillo@earthsystems.com	

Key Testing Personnel		
Field Testing Supervisor - Name Josh Thomas	CA Registration Number	Expiration Date
Title in the Organization Field Services Supervisor	Phone Number (760) 345-1588	
Alternate Phone Number (760) 702-0711	E-Mail jthomas@earthsystems.com	

Key Special Inspections Personnel		
Special Inspection Supervisor - Name Josh Thomas	CA Registration Number	Expiration Date
Title in the Organization Field Services Supervisor	Phone Number (760) 345-1588	
Alternate Phone Number (760) 702-0711	E-Mail jthomas@earthsystems.com	

Key Special Inspections Personnel		
Field Special Inspection Supervisor - Name Josh Thomas	CA Registration Number	Expiration Date
Title in the Organization Field Services Supervisor	Phone Number (760) 345-1588	
Alternate Phone Number (760) 702-0711	E-Mail jthomas@earthsystems.com	





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ACCREDITATION AND QUALIFICATIONS

Agency currently holds accreditation by: *(Attach a copy of current accreditation details.)*

AASHTO Accreditation Program (AAP)
DSA, CCRL

Latest Expiration Date *(if any)* _____

Is this Agency accepted in the Division of the State Architect Laboratory Evaluation and Acceptance Program, DSA-LEA?

No Yes

Expiration Date 02/06/2026

LEA # 050

Basis for accreditation

- AASHTO R18: Standard Recommended Practice for Establishing and Implementing a Quality System for Construction Materials Testing Laboratories
- ASTM E 329: Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
- ASTM C 1077: Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation
- ASTM D 3740: Practice for Evaluation of Agencies Engaged in Testing and/or Inspections of Soils and Rock as Used Engineering Design and Construction
- ASTM C 1093: Practice for Accreditation of Testing Agencies for Unit Masonry

Basis for Test Technician/Special Inspector Qualification

- DSA-LEA approval as test Technician/special inspector
- Welding inspectors satisfying the requirements of the CBC Section 1705A.2.5
- California licensed engineer qualified to be test technician/special inspector





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APPLICABLE TEST STANDARDS FOR WHICH AGENCY IS APPROVED

1 SOILS AND FOUNDATIONS

Tests

Standard	Test Procedure	Standard	Test Procedure
ASTM D 1140	No. 200 Wash	ASTM D 1143	Deep Foundations – Axial Compression
ASTM D 1556	Density of Soils – Sand Cone	ASTM D 1557	Soil Compaction – Modified
ASTM D 1883	CBR Lab. Compacted Soils	ASTM D 2166	Unconfined Compressive Strength/Moisture content
ASTM D 2216	Water Content of Soil	ASTM D 2419	Sand Equivalent Value
ASTM D 2434	Permeability of Granular Soils	ASTM D 2435	Consolidation Test
ASTM D 2487	Classification of Soils	ASTM D 2488	Identification of Soil (Visual)
ASTM D 2844	Resistance R-Value & Exp. Pressure	ASTM D 2850	Unconsolidated, Undrained Triaxial
ASTM D 2974	Organic Content	ASTM D 3080	Direct Shear
ASTM D 3441	Cone Penetration Test (CPT)	ASTM D 3689	Deep Foundations – Axial Tension
ASTM D 3744	Durability Index	ASTM D 3966	Deep Foundations –Lateral Loads
ASTM D 421	Dry Prep of Soil	ASTM D 422	Particle Size Analysts
ASTM D 4318	Liquid I Plastic Limit	ASTM D 4546	Swell or Collapse Test
ASTM D 4643	Microwave Moisture of Soils	ASTM D 4718	Oversize Rock Correction
ASTM D 4829	Expansion Index	ASTM D 5084	Permeability of Soils
ASTM D 558	Moisture Density of Soil Cement Mixtures	ASTM D 5778	Friction Cone and Piezocone Penetration Test
ASTM D 6913	Gradation of Soil Using Sieve Analysis	ASTM D 6938	Density of Soils – Nuclear Gage
ASTM D 698	Compaction of Soil-Standard	ASTM D 854	Specific Gravity of Soil

Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.

Standard	Test Procedure	Standard	Test Procedure

2 CONCRETE

Tests

Standard	Test Procedure	Standard	Test Procedure
2019 CBC section 1903A.5(1); ASTM C33 Appendix X1.3	Evaluating Potential for Deleterious Expansion Due to Alkali Reactivity of an Aggregate	ASTM A 1034	Rebar Mechanical Splices
ASTM A 615	Tension Test; see Table 4(d)	ASTM A 706	Tension and Bend; see Table 4 (d)
ASTM C 1064	Temperature	ASTM C 1140	Shotcrete Compression
ASTM C 117	No. 200 Wash	ASTM C 1231	Unbonded Caps
ASTM C 1252	Uncompacted Void Content	ASTM C 1260	Alkali Reactivity of Aggregate
ASTM C 127	Specific Gravity - Coarse	ASTM C 128	Specific Gravity - Fine
ASTM C 1293	Length Change due to Alkali-Silica	ASTM C 131	Degradation of Aggregate





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2		CONCRETE	
Tests			
Standard	Test Procedure	Standard	Test Procedure
ASTM C 136	Sieve Analysis Course I Fine	ASTM C 138	Density I Yield I Air Content
ASTM C 142	Clay I Friable Particles	ASTM C 143	Slump
ASTM C 1542	Measuring Length of Cores	ASTM C 157	Length Change
ASTM C 1602	Water	ASTM C 1604	Shotcrete Core
ASTM C 172	Sampling Freshly Mixed Concrete	ASTM C 173	Air Content (V)
ASTM C 174	Measuring Thickness Using Drilled	ASTM C 192	Making I Curing Specimens - Lab
ASTM C 231	Air Content (P)	ASTM C 29	Unit Weight I Voids
ASTM C 31	Concrete Sampling - Field	ASTM C 39	Compressive Strength
ASTM C 40	Organic Impurities	ASTM C 42	Concrete Core
ASTM C 496	Splitting Tensile	ASTM C 511	Moist Cure Rooms/Tanks
ASTM C 535	LA Abrasion	ASTM C 566	Moisture Content of Aggregate
ASTM C 567	Density of Lightweight Aggregate	ASTM C 617	Capping Concrete Specimens
ASTM C 702	Reducing Aggregate Samples	ASTM C 78	Flexural Strength
ASTM C 88	Sodium Sulfate Soundness	ASTM D 1561	Prep for HMA Test Specimens
ASTM D 2041	Maximum Theo. Specific Gravity	ASTM D 2419	Sand Equivalent Value
ASTM D 2726	Specific Gravity of Marshall Sample	ASTM D 2950	In-Situ Density with Nuc. Gauge
ASTM D 3203	Percent Air Voids in Compacted Asphalt Mixtures	ASTM D 3744	Aggregate Durability Index
ASTM D 4791	Flat Elongated Pieces in Aggregate	ASTM D 5444	Sieve Analysis of Extracted Aggregate
ASTM D 5821	Percent Crushed Particles	ASTM D 6307	Asphalt Content by Ignition
ASTM D 6926	Prep of Asphalt Mixture Specimens Using Marshal Apparatus	ASTM D 6927	Marshall Stability & Flow of Asphalt Mixtures
ASTM D 75	Sampling Aggregate	ASTM E 1190	Strength of Power-Actuated Fasteners Installed in Structural Members
ASTM E 488	Strength of Anchors in Concrete Elements		
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Standard	Test Procedure	Standard	Test Procedure
3		MASONRY	
Tests			
Standard	Test Procedure	Standard	Test Procedure
ASTM C 1019	Sampling and Testing Grout (Compressive Strength)	ASTM C 1314	Compressive Strength of Masonry Prism
ASTM C 140	Absorption, Compressive Strength, Unit Weight, Dimensions & Moisture Content	ASTM C 1552	Capping CMU, Related Units & Masonry Prisms for Compression Testing
ASTM C 39	Core Compressive Strength	ASTM C 426	Linear Drying Shrinkage





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3		MASONRY	
Tests			
Standard	Test Procedure	Standard	Test Procedure
ASTM C 780	Mortar Compressive Strength	CBC 2105A	Core Shear
CBC 2105A	Mortar Sampling		
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Standard	Test Procedure	Standard	Test Procedure
4		STEEL	
Tests			
Standard	Test Procedure	Standard	Test Procedure
ASTM A 1061	Uncoated Seven-Wire Tension	ASTM A 1064	Steel Wire Tension & Bend Test
ASTM A 370	Tension & Bend Test	ASTM A 90	Weight of Coating
ASTM A 970	Headed Steel Bars Bend Test	ASTM E 605	Density of SFRM
CBC 2203A	Material Identification		
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Standard	Test Procedure	Standard	Test Procedure
5		WOOD AND ROOF ASSEMBLIES	
Tests			
Standard	Test Procedure	Standard	Test Procedure
ASTM D 2395	Density/Sp. Gr. Of Wood	ASTM D 4442	Moisture Content of Wood
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Standard	Test Procedure	Standard	Test Procedure
6		COMPONENT, ASSEMBLY, PROTOTYPE & MISCELLANEOUS	
Tests			
Standard	Test Procedure	Standard	Test Procedure
<i>Tests that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Standard	Test Procedure	Standard	Test Procedure





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7	TEST TECHNICIANS				
* To update expiration date a renewal application for OPAA and proof of renewal for certification/license shall be required.					
Test Technician's Name	Certification/ License type	Certification/ Licensing Agency	Certification/ License Number	Expiration Date*	Indicate Full Time, Part Time, or Consultant
Rocio Carrillo	Civil	Registered Design Professional	75721	06/30/2026	Full-Time
Anthony Colarossi	Civil	Registered Design Professional	60302	06/30/2026	Full-Time
Jared Large	Concrete Field Testing Technician - Grade I	ACI	01008660	03/01/2028	Full-Time
Jose Murillo	Aggregate Testing Technician - Level 1	ACI	01067688	10/08/2026	Full-Time
Jose Murillo	Masonry Laboratory Testing Technician	ACI	01067688	06/04/2026	Full-Time
Jose Murillo	Concrete Laboratory Testing Technician - Level 1	ACI	01067688	10/08/2026	Full-Time
Jose Murillo	Concrete Field Testing Technician - Grade I	ACI	01067688	07/23/2026	Full-Time
Juan Nunez	Soils Nuclear Gauge	Pacific Nuclear Technology	10686	04/26/2025	Full-Time
Juan Nunez	Concrete Field Testing Technician - Grade I	ACI	00018820	03/01/2029	Full-Time
Kevin Paul	Geotechnical	Registered Design Professional	2930	09/30/2026	Full-Time
Kevin Paul	Civil	Registered Design Professional	70084	09/30/2026	Full-Time
Josh Thomas	Nuclear Gauge Inspector	ATI	117977596	04/22/2025	Full-Time
<i>Test Technicians with expired license shall not be permitted to perform Tests.</i>					





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APPLICABLE SPECIAL INSPECTIONS FOR WHICH AGENCY IS APPROVED

8	SOILS AND FOUNDATIONS
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Special Inspections

Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
CBC 1705/1705A	Cast-in-place Deep Foundations	CBC 1705/1705A	Driven Deep Foundations
CBC 1705/1705A	Soils (Excavations and Fills)	CBC 1812A	Shoring
CBC 1813A	Ground Improvement		

Special Inspections that are in the lab's scope but are not listed above should be provided in the space(s) below.

Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection

9	CONCRETE
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Special Inspections

Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
CBC 1705/1705A	Post-Installed Anchors	CBC 1705/1705A	Shotcrete
CBC 1705/1705A & ACI 318	Pre-Stressed Concrete	CBC 1705/1705A & ACI 318	Reinforced Cast-In-Place Concrete
CBC 1705/1705A & ACI 318	Reinforced Pre-Cast Concrete	CBC 1705/1705A & AWS D1.4	Rebar Welding
CBC 1705/1705A and ASTM C94	Batch Plant		

Special Inspections that are in the lab's scope but are not listed above should be provided in the space(s) below.

Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection

10	MASONRY
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Special Inspections

Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
CBC 1705/1705A & AWS D1.4	Rebar Welding	CBC 1705/1705A & TMS 602	Masonry Placement

Special Inspections that are in the lab's scope but are not listed above should be provided in the space(s) below.

Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection

11	STEEL
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Special Inspections

Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
CBC 1705/1705A	Fireproofing	CBC 1705/1705A	Structural Cold-Formed Steel
CBC 1705/1705A, AISC 360 & 341	High Strength Bolts	CBC 1705/1705A, AISC 360 & 341	Steel Fabrication & Erection





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11	STEEL		
Special Inspections			
Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
CBC 1705/1705A, AWS QC1, AISC 360 & 341	Welding		
<i>Special Inspections that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
12	WOOD AND ROOF ASSEMBLIES		
Special Inspections			
Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
CBC 1705/1705A	Wood Construction		
<i>Special Inspections that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
13	NONSTRUCTURAL COMPONENTS AND MISCELLANEOUS SPECIAL INSPECTIONS		
Special Inspections			
Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection
<i>Special Inspections that are in the lab's scope but are not listed above should be provided in the space(s) below.</i>			
Code/Standard	Field and Types of Inspection	Code/Standard	Field and Types of Inspection





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14	SPECIAL INSPECTORS				
* To update expiration date a renewal application for OPAA and proof of renewal for certification/license shall be required.					
Inspector's Name	Certification/ License type	Certification/ Licensing Agency	Certification/ License Number	Expiration Date*	Indicate Full Time, Part Time, or Consultant
John Bonafede	Certified Welding Inspector	AWS	18010851	01/01/2027	Full-Time
John Bonafede	Structural Steel and Bolting Special Inspector	ICC	8716843	05/21/2025	Full-Time
John Bonafede	Structural Welding Special Inspector	ICC	8716843	05/21/2025	Full-Time
John Bonafede	Structural Masonry Special Inspector	ICC	8716843	05/21/2025	Full-Time
John Bonafede	Reinforced Concrete Special Inspector	ICC	8716843	02/26/2027	Full-Time
Guillermo Jimenez	Certified Welding Inspector	AWS	10020461	02/01/2025	Consultant
Guillermo Jimenez	Spray Applied Fire Proofing Special Inspector	ICC	5096154	09/27/2025	Consultant
Guillermo Jimenez	Structural Steel and Welding Special Inspector - Legacy	ICC	5096154	09/27/2025	Consultant
Guillermo Jimenez	Structural Masonry Special Inspector	ICC	5096154	09/27/2025	Consultant
Guillermo Jimenez	Reinforced Concrete Special Inspector	ICC	5096154	09/27/2025	Consultant
Guillermo Jimenez	Prestressed Concrete Special Inspector	ICC	5096154	09/27/2025	Consultant
Guillermo Jimenez	Commercial Building Inspector	ICC	5096154	09/27/2025	Consultant
Eric Lewis	Certified Welding Inspector	AWS	06030221	03/01/2027	Full-Time
Xyrus Mejia	Certified Pneumatically Placed Concrete Inspector (Shotcrete)	DSA	6339	11/01/2025	Full-Time
<i>Special Inspectors with expired license shall not be permitted to perform Tests.</i>					





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15	SUMMARY OF AGENCY'S TESTING AND SPECIAL INSPECTION SERVICES	
Structural Tests & Special Inspections		
Structural Tests	Structural Special Inspections	
Aggregate	Batch Plant	
Concrete	Deep Foundations	
Concrete Specialty Inserts	Earthwork	
Deep Foundations	High-Strength Bolts and other Fasteners	
Masonry	Masonry	
Post-Installed Anchors	Nonstructural Components, Supports and Attachments	
Reinforcing Steel	Post-Installed Anchors	
Shotcrete	Pre-Cast Concrete	
Soil	Pre-Stressed Concrete	
Steel	Reinforced Concrete	
	Shotcrete	
	Spray Applied Fireproofing	
	Steel Welding	

Tests and Special Inspections that are in the Agency's scope but are not listed above should be provided in the space(s) below.

Asphalt Concrete (AC) Per DSA LEA

HCAI Approval		(For Office Use Only)	
Print Name:	<u>Jeffrey Kikumoto</u>	Approval Date:	<u>11/12/2024</u>
Title:	<u>Senior Structural Engineer</u>	Approval Expiration Date:	<u>02/06/2026</u>
Condition of approval (if applicable):			

