



## Meeting of the Board for Professional Engineers, Land Surveyors, and Geologists

Board for Professional Engineers,  
Land Surveyors, and Geologists

Thursday, November 21, 2019 beginning at 9:00  
a.m. and continuing on Friday, November 22,  
2019 beginning at 9:00 a.m., if necessary

Elihu M. Harris Building  
1515 Clay Street, Conference Room 2  
Oakland, CA 94612



# TABLE OF CONTENTS

## MEETING OF THE BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

BOARD MEETING

NOVEMBER 21-22, 2019

Elihu M. Harris Building  
1515 Clay Street, Conference Room 2  
Oakland, CA 94612

### BOARD MEMBERS

Fel Amistad, President; Steve Wilson, Vice President; Natalie Alavi; Alireza Asgari; Duane Friel; Andrew Hamilton; Kathy Jones Irish; Eric Johnson; Coby King; Asha Lang; Betsy Mathieson; Mohammad Qureshi; Frank Ruffino; and Robert Stockton

<b>I. Roll Call to Establish a Quorum</b>	<b>5</b>
<b>II. Pledge of Allegiance</b>	<b>7</b>
<b>III. Public Comment for Items Not on the Agenda</b> <b>NOTE:</b> The Board cannot take action on items not on the agenda. The Board will also allow for Public Comment during the discussion of each item on the agenda. Please see the last page of this Official Notice and Agenda for additional information regarding Public Comment.	<b>9</b>
<b>IV. Administration</b> A. Fiscal Year 2017/18 Budget Status B. Fiscal Year 2018/19 Budget Status C. Fiscal Year 2019/20 Budget Report	<b>11</b>
<b>V. Legislation</b> A. 2020 Legislative Calendar	<b>17</b> <b>19</b>
<b>VI. Enforcement</b> A. Enforcement Statistical Reports 1. Fiscal Year 2019/20 Update	<b>21</b>
<b>VII. Exams/Licensing</b> A. Update on 2019 Examinations B. Third Quarter Examination Results C. Update on Alternate Item Types for California Examinations D. Adoption of Test Plan Specifications 1. Professional Geologist – Certified Engineering Geologist (CEG) (Possible Action) 2. Professional Geologist – Certified Hydrogeologist (CHG) (Possible Action)	<b>35</b> <b>37</b> <b>39</b> <b>44</b>
<b>VIII. Executive Officer's Report</b> A. Rulemaking Status Report B. Update on Board's Business Modernization/PAL Process C. Personnel D. ABET E. Association of State Boards of Geology (ASBOG) 1. Report on the 2019 Annual Meeting F. National Council of Examiners for Engineering and Surveying (NCEES)	<b>49</b> <b>51</b> <b>53</b>

1. Member Board Administrator Committee – Draft Resolution of Cooperation (Possible Action)	57
2. Nomination of Associate Members (Possible Action)	59
3. Nomination for Western Zone Assistant Vice President (Possible Action)	
4. Out-of-State Travel Request for April 2020 Combined Interim Zone Meeting (Possible Action)	
G. Update on Outreach Efforts	61
H. Unlicensed Activity Research – Enforcement Statistics	67
<b>IX. National Transportation Safety Board (NTSB) Letter to Governor Related to Professional Engineer Exemption and Gas Pipelines – Request for Input from Business, Consumer Services and Housing Agency (Possible Action)</b>	<b>73</b>
<b>X. Review of Professional Land Surveyors’ Act and Board Rules related to the Preparation and Submittal of Record of Survey and Corner Record Requirements – Staff Report and Recommendations (Possible Action)</b>	<b>79</b>
<b>XI. Technical Advisory Committees (TACs)</b>	<b>85</b>
A. Assignment of Items to TACs (Possible Action)	
B. Appointment of TAC Members (Possible Action)	
C. Reports from the TACs (Possible Action)	
<b>XII. President’s Report/Board Member Activities</b>	<b>87</b>
<b>XIII. Approval of Meeting Minutes (Possible Action)</b>	<b>89</b>
A. Approval of the Minutes of the September 26, 2019, Board Meeting	
<b>XIV. 2020 Board Meeting Schedule (Possible Action)</b>	<b>103</b>
<b>XV. Discussion Regarding Proposed Agenda Items for Next Board Meeting</b>	<b>107</b>
<b>XVI. Closed Session – The Board will meet in Closed Session to discuss, as needed:</b>	<b>109</b>
A. Personnel Matters [Pursuant to Government Code sections 11126(a) and (b)]	
1. Executive Officer Performance Evaluation	
B. Examination Procedures and Results [Pursuant to Government Code section 11126(c)(1)]	
C. Administrative Adjudication [Pursuant to Government Code section 11126(c)(3)]	
D. Pending Litigation [Pursuant to Government Code section 11126(e)]	
<b>XVII. Open Session to Announce the Results of Closed Session</b>	<b>111</b>
<b>XVIII. Adjourn</b>	<b>113</b>

**I. Roll Call to Establish a Quorum**

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## II. Pledge of Allegiance

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### **III. Public Comment for Items Not on the Agenda**

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**NOTE:** The Board cannot take action on items not on the agenda. The Board will also allow for Public Comment during the discussion of each item on the agenda. Please see the last page of this Official Notice and Agenda for additional information regarding Public Comment.



#### **IV. Administration**

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- A. Fiscal Year 2017/18 Budget Status
- B. Fiscal Year 2018/19 Budget Status
- C. Fiscal Year 2019/20 Budget Report



**0770- Professional Engineers, Land Surveyors and Geologist  
Financial Statement**

Prepared 11/12/19

	FY 2019-20 10/16 Activity Log	FY 2019-20 FM 1 Projections	FY 2019-20 Updated Projections	% Change
<b>Revenue</b>				
Applications/Licensing Fees	460,493	1,646,000	1,646,000	0%
1 Renewal fees	3,567,571	6,891,000	6,891,000	0%
2 Delinquent fees	16,560	88,000	88,000	0%
Other & Reimbursements	49,387	140,000	140,000	0%
3 Interest	0	163,000	163,000	0%
<b>Total Revenue:</b>	<b>4,094,011</b>	<b>8,928,000</b>	<b>8,928,000</b>	<b>0%</b>
<b>Expense</b>				
<b>Personnel Services:</b>				
4 Salary & Wages (Staff)	741,366	2,924,425	2,965,464	1%
Temp Help	26,932	123,785	107,728	-13%
Statutory Exempt (EO)	33,396	135,526	133,584	-1%
Board Member Per Diem	2,400	10,000	9,600	-4%
Overtime/Flex Elect/Lump Sum	112	0	448	100%
Staff Benefits	441,778	1,713,980	1,767,112	3%
<b>Total Personnel Services</b>	<b>1,245,984</b>	<b>4,907,716</b>	<b>4,983,936</b>	<b>2%</b>
<b>Operating Expense and Equipment:</b>				
General Expense	20,830	67,000	67,000	0%
5 Printing	25,056	8,000	31,978	300%
Communication	4,611	44,000	44,000	0%
Postage	0	50,000	50,000	0%
Insurance	0	16,000	16,000	0%
Travel In State	6,526	60,000	65,000	8%
Travel, Out-of-State	0	800	800	0%
Training	0	150	500	233%
Facilities Operations	97,442	416,004	416,004	0%
6 C & P Services - Interdept.	136,855	457,090	457,090	0%
7 C & P Services - External	555,301	1,243,885	1,243,885	0%
8 DCA Pro Rata	0	1,579,000	1,579,000	0%
DOI - Investigations	0	0	0	0%
Interagency Services	273	27,000	27,000	0%
Consolidated Data Center	34	22,000	22,000	0%
9 Information Technology	14,211	1,143,000	857,250	-25%
Equipment	794	0	16,000	0%
Other Items of Expense	0	0	100,000	0%
<b>Total OE&amp;E</b>	<b>861,933</b>	<b>5,133,929</b>	<b>4,993,507</b>	<b>-3%</b>
<b>Total Expense:</b>	<b>2,107,917</b>	<b>10,041,645</b>	<b>9,977,443</b>	<b>-1%</b>
<b>Total Revenue:</b>	<b>4,094,011</b>	<b>8,928,000</b>	<b>8,928,000</b>	
<b>Total Expense:</b>	<b>2,107,917</b>	<b>10,041,645</b>	<b>9,977,443</b>	
<b>Difference:</b>	<b>1,986,094</b>	<b>(1,113,645)</b>	<b>(1,049,443)</b>	

## Financial Statement Notes

- 1 **Renewal fees** - Renewal fees are not collected equally throughout the year. On average, the Board collects 75% of its renewal fees revenue in the first half of the fiscal year.
- 2 **Delinquent fees** - Approximately 90% of delinquent fee revenue is collected in the second half of the fiscal year.
- 3 **Interest** - Includes income from surplus money investments earned on money in the Board's fund. The state treasury manages this money and the Board earns income based on the current interest rate. Line item projection was provided by the DCA Budgets office.
- 4 **Salary & Wages (Staff)** - The projected expenditure increase for salaries and wages is due to the Board almost being fully staffed, merit salary adjustments, and new bargaining unit agreements. The Board is trying to fill the following remaining positions: AGPA/SSA and OT.
- 5 **Printing** - \$25,000 in contract encumbrances in Fi\$Cal reports. Board staff is working with DCA Budgets to identify contracts.
- 6 **C&P Services Interdepartmental** - Includes all contract services with other state agencies for examination services (Dept. of Conservation and Water Resources). This line item also now includes enforcement expenses for the Attorney General and the Office of Administrative Hearings.
- 7 **C&P Services External** - Includes all external contracts (examination development, exam site rental, expert consultant agreements, and credit card processing).
- 8 **DCA Pro Rata** - Includes distributed costs of programmatic and administrative services from DCA.
- 9 **Information Technology** - California Department of Technology (CDT) oversight for review and approval of the Project Approval Lifecycle (PAL) project.

# 0770 - Professional Engineer's, Land Surveyor's and Geologist's Fund

Prepared 11.12.2019

## Analysis of Fund Condition

(Dollars in Thousands)

2019-2020 Budget Act	Budget Act				
	PY 2017-18	PY 2018-19	CY 2019-20	BY 2020-21	BY + 1 2021-22
<b>BEGINNING BALANCE</b>	\$ 10,042	\$ 7,955	\$ 6,399	\$ 5,471	\$ 2,413
Prior Year Adjustment	\$ -	\$ -	\$ -	\$ -	\$ -
Adjusted Beginning Balance	\$ 10,042	\$ 7,955	\$ 6,399	\$ 5,471	\$ 2,413
<b>REVENUES AND TRANSFERS</b>					
Revenues:					
4121200 Delinquent fees	\$ 88	\$ 75	\$ 88	\$ 88	\$ 89
4127400 Renewal fees	\$ 6,851	\$ 6,260	\$ 6,891	\$ 6,323	\$ 6,960
4129200 Other regulatory fees	\$ 124	\$ 252	\$ 140	\$ 140	\$ 140
4129400 Other regulatory licenses and permits	\$ 1,643	\$ 1,842	\$ 1,646	\$ 1,646	\$ 1,646
4163000 Income from surplus money investments	\$ 97	\$ 145	\$ 163	\$ 36	\$ -
4171400 Escheat of unclaimed checks and warrants	\$ 13	\$ 13	\$ 13	\$ 13	\$ 13
4172500 Miscellaneous revenues	\$ 10	\$ 1	\$ 1	\$ 1	\$ 1
Totals, Revenues	\$ 8,826	\$ 8,588	\$ 8,942	\$ 8,247	\$ 8,849
Transfers from Other Funds					
Revenue Transfer from Geology/General Fund	\$ -		\$ 1,134		
FO0001 Proposed GF Loan Repayment per item 1110-011-0770, Budget Act of 2011	\$ -	\$ 800	\$ -	\$ -	\$ -
Totals, Revenues and Transfers	\$ 8,826	\$ 9,388	\$ 10,076	\$ 8,247	\$ 8,849
Totals, Resources	\$ 18,868	\$ 17,343	\$ 16,475	\$ 13,717	\$ 11,262
<b>EXPENDITURES</b>					
Disbursements:					
1111 Department of Consumer Affairs (State Operations)	\$ 10,214	\$ 10,092	\$ 9,977	\$ 10,277	\$ 10,585
8880 Financial Information System for CA (State Operations)	\$ 15	\$ 1	\$ -1	\$ -1	\$ -1
9892 Supplemental Pension Payments (State Operations)	\$ -	\$ 98	\$ 209	\$ 209	\$ 209
9900 Statewide Admin. (State Operations)	\$ 684	\$ 753	\$ 819	\$ 819	\$ 819
Total Disbursements	\$ 10,913	\$ 10,944	\$ 11,004	\$ 11,304	\$ 11,612
<b>FUND BALANCE</b>					
Reserve for economic uncertainties	\$ 7,955	\$ 6,399	\$ 5,471	\$ 2,413	\$ -350
<b>Months in Reserve</b>	8.7	7.0	5.8	2.5	-0.4

NOTES:

- A. ASSUMES WORKLOAD AND REVENUE PROJECTIONS ARE REALIZED IN BY+1 AND ON-GOING.
- B. ASSUMES APPROPRIATION GROWTH OF 3% PER YEAR BEGINNING IN BY+1
- C. ASSUMES INTEREST RATE AT 0.3%.
- D. REVENUE AND EXPENDITURES PROJECTED THROUGH FM 12.



**V. Legislation**

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A. 2020 Legislative Calendar



## 2020 TENTATIVE LEGISLATIVE CALENDAR

COMPILED BY THE OFFICES OF THE SECRETARY OF THE SENATE AND THE OFFICE OF THE CHIEF CLERK  
October 18, 2019 (Final)

### DEADLINES

JANUARY						
S	M	T	W	TH	F	S
			<u>1</u>	2	3	4
5	<u>6</u>	7	8	9	<u>10</u>	11
12	13	14	15	16	<u>17</u>	18
19	<u>20</u>	21	22	23	<u>24</u>	25
26	27	28	29	30	<u>31</u>	

FEBRUARY						
S	M	T	W	TH	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	<u>17</u>	18	19	20	<u>21</u>	22
23	24	25	26	27	28	29

MARCH						
S	M	T	W	TH	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	<u>27</u>	28
29	30	31				

APRIL						
S	M	T	W	TH	F	S
			1	<u>2</u>	3	4
5	6	7	8	9	10	11
12	<u>13</u>	14	15	16	17	18
19	20	21	22	23	<u>24</u>	25
26	27	28	29	30		

MAY						
S	M	T	W	TH	F	S
					<u>1</u>	2
3	4	5	6	7	<u>8</u>	9
10	11	12	13	14	<u>15</u>	16
17	18	19	20	21	22	23
24	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	30
31						

- Jan. 1** Statutes take effect (Art. IV, Sec. 8(c)).
- Jan. 6** Legislature Reconvenes (J.R. 51(a)(4)).
- Jan. 10** Budget must be submitted by Governor (Art. IV, Sec. 12(a)).
- Jan. 17** Last day for **policy committees** to hear and report to **fiscal committees** fiscal bills introduced in their house in the **odd-numbered year** (J.R. 61(b)(1)).
- Jan. 20** Martin Luther King, Jr. Day.
- Jan. 24** Last day for any committee to hear and report to the **floor** bills introduced in that house in the odd-numbered year (J.R. 61(b)(2)). Last day to **submit bill requests** to the Office of Legislative Counsel.
- Jan. 31** Last day for each house to **pass bills introduced** in that house in the odd-numbered year (Art. IV, Sec. 10(c)), (J.R. 61(b)(3)).
- Feb. 17** Presidents' Day.
- Feb. 21** Last day for bills to be **introduced** (J.R. 61(b)(4)), (J.R. 54(a)).
- Mar. 27** Cesar Chavez Day observed
- Apr. 2** **Spring Recess** begins upon adjournment of this day's session (J.R. 51(b)(1)).
- Apr. 13** Legislature reconvenes from **Spring Recess** (J.R. 51(b)(1)).
- Apr. 24** Last day for **policy committees** to hear and report to **fiscal committees** fiscal bills introduced in their house (J.R. 61(b)(5)).
- May 1** Last day for **policy committees** to hear and report to the floor **nonfiscal** bills introduced in their house (J.R. 61(b)(6)).
- May 8** Last day for **policy committees** to meet prior to June 1 (J.R. 61(b)(7)).
- May 15** Last day for **fiscal committees** to hear and report to the floor bills introduced in their house (J.R. 61(b)(8)). Last day for **fiscal committees** to meet prior to June 1 (J.R. 61(b)(9)).
- May 25** Memorial Day
- May 26 - 29** **Floor Session Only.** No committees, other than conference or Rules Committees, may meet for any purpose (J.R. 61(b)(10)).
- May 29** Last day for each house to pass bills introduced in that house (J.R. 61(b)(11)).

\*Holiday schedule subject to Senate Rules committee approval.

**2020 TENTATIVE LEGISLATIVE CALENDAR**

COMPILED BY THE OFFICES OF THE SECRETARY OF THE SENATE AND THE OFFICE OF THE CHIEF CLERK  
October 18, 2019 (Final)

JUNE						
S	M	T	W	TH	F	S
	<u>1</u>	2	3	4	5	6
7	8	9	10	11	12	13
14	<u>15</u>	16	17	18	19	20
21	22	23	24	<u>25</u>	<u>26</u>	27
28	29	30				

- [June 1](#) Committee meetings may resume (J.R. 61(b)(12)).
- [June 15](#) **Budget Bill** must be **passed** by **midnight** (Art. IV, Sec. 12(c)(3)).
- [June 25](#) Last day for a legislative measure to qualify for the November 3 General Election ballot (Election code Sec. 9040).
- [June 26](#) Last day for **policy committees** to hear and report **fiscal bills** to fiscal committees (J.R. 61(b)(13)).

JULY						
S	M	T	W	TH	F	S
			1	<u>2</u>	<u>3</u>	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- [July 2](#) Last day for **policy committees** to meet and report bills (J.R. 61(b)(14)). **Summer Recess** begins upon adjournment provided Budget Bill has been passed (J.R. 51(b)(2)).
- [July 3](#) Independence Day observed.

AUGUST						
S	M	T	W	TH	F	S
						1
2	<u>3</u>	4	5	6	7	8
9	10	11	12	13	<u>14</u>	15
16	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	22
23	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	29
30	<u>31</u>					

- [Aug. 3](#) Legislature reconvenes from **Summer Recess** (J.R. 51(b)(2)).
- [Aug. 14](#) Last day for **fiscal committees** to meet and report bills (J.R. 61(b)(15)).
- [Aug. 17 – 31](#) **Floor Session only**. No committees, other than conference and Rules committees, may meet for any purpose (J.R. 61(b)(16)).
- [Aug. 21](#) Last day to **amend bills** on the Floor (J.R. 61(b)(17)).
- [Aug. 31](#) Last day for **each house to pass bills** (Art. IV, Sec. 10(c), (J.R. 61(b)(18)). **Final recess** begins upon adjournment (J.R. 51(b)(3)).

\*Holiday schedule subject to Senate Rules committee approval.

**IMPORTANT DATES OCCURRING DURING FINAL RECESS**

**2020**

- [Sept. 30](#) Last day for Governor to sign or veto bills passed by the Legislature before Sept. 1 and in the Governor’s possession on or after Sept. 1 (Art. IV, Sec. 10(b)(2)).
  - [Nov. 3](#) General Election
  - [Nov. 30](#) Adjournment *Sine Die* at midnight (Art. IV, Sec. 3(a)).
  - [Dec. 7](#) 12 m. convening of 2021-22 Regular Session (Art. IV, Sec. 3(a)).
- 2021**
- [Jan. 1](#) Statutes take effect (Art. IV, Sec. 8(c)).

**VI. Enforcement**

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A. Enforcement Statistical Reports

1. Fiscal Year 2019/20 Update



## Complaint Investigation Phase

### Number of Complaint Investigations Opened & Completed by Month 12-Month Cycle

Month	Complaint Investigations Opened	Complaint Investigations Completed
November 2018	51	18
December 2018	12	17
January 2019	39	28
February 2019	12	21
March 2019	29	42
April 2019	32	43
May 2019	32	11
June 2019	21	30
July 2019	37	30
August 2019	40	37
September 2019	33	32
October 2019	21	21

### Complaint Investigations Opened and Completed Total by Fiscal Year

Fiscal Year	Complaint Investigations Opened	Complaint Investigations Completed
2016/17	353	323
2017/18	362	349
2018/19	328	334
2019/20	131	120

Current Fiscal Year through October 31, 2019

### Number of Open (Pending) Complaint Investigations (at end of FY or month for current FY)

Fiscal Year	Number of Open (Pending) Complaint Investigations
2016/17	237
2017/18	254
2018/19	247
2019/20	258

Current Fiscal Year through October 31, 2019

## Complaint Investigation Phase

### Average Days from Opening of Complaint Investigation to Completion of Investigation (at end of FY or month for current FY)

Fiscal Year	Average Days
2016/17	243
2017/18	238
2018/19	236
2019/20	311

Current Fiscal Year through October 31, 2019

### Outcome of Completed Investigations

Fiscal Year	# Closed	% Closed	# Cite	% Cite	# FDA	% FDA
2016/17	205	63%	97	30%	21	7%
2017/18	219	63%	93	27%	37	10%
2018/19	225	67%	83	25%	27	8%
2019/20	79	66%	37	31%	4	3%

Current Fiscal Year through October 31, 2019

Closed = Closed with No Action Taken, includes the categories listed on the next page.

Cite = Referred for Issuance of Citation

FDA = Referred for Formal Disciplinary Action

## Complaint Investigation Phase

### Aging of Open (Pending) Complaint Investigation Cases 12-Month Cycle

Month	0-30 Days	31-60 Days	61-90 Days	91-12 Days	121-180 Days	181-270 Days	271-365 Days	1-2 Years	2-3 Years	3-4 Years
November 2018	47	16	24	12	57	65	15	26	1	0
December 2018	12	41	19	23	32	81	19	30	1	0
January 2019	32	11	34	20	32	78	31	30	1	0
February 2019	11	29	11	39	37	60	46	26	1	0
March 2019	27	12	28	11	50	48	53	17	1	0
April 2019	31	25	11	27	41	36	50	14	1	0
May 2019	32	29	25	11	35	57	43	22	2	0
June 2019	17	31	26	21	33	42	39	37	1	0
July 2019	37	17	30	24	26	46	32	41	0	1
August 2019	40	37	16	27	40	27	41	27	1	1
September 2019	33	40	36	16	43	37	28	24	0	1
October 2019	20	32	39	36	36	37	33	23	1	1

## Citations (Informal Enforcement Actions)

### Number of Complaint Investigations Referred and Number of Citations Issued

Fiscal Year	Complaint Investigations Referred for Issuance of Citation	Citations Issued
2016/17	97	100
2017/18	93	83
2018/19	83	75
2019/20	37	38

Current Fiscal Year through October 31, 2019

### Number of Citations Issued and Final

Fiscal Year	Issued	Final
2016/17	100	101
2017/18	83	91
2018/19	75	76
2019/20	38	28

Current Fiscal Year through October 31, 2019

### Average Days Between Date of Issuance of Citation and Date Citation Becomes Final

Fiscal Year	Number of Days
2016/17	259
2017/18	164
2018/19	236
2019/20	167

Current Fiscal Year through October 31, 2019

### Average Days from Opening of Complaint Investigation to Date Citation Becomes Final

Fiscal Year	Number of Days
2016/17	639
2017/18	495
2018/19	587
2019/20	532

Current Fiscal Year through October 31, 2019

## Formal Disciplinary Actions Against Licensees

### Number of Licensees Referred for Formal Disciplinary Action and Number of Final Disciplinary Decisions

Fiscal Year	Number of Licensees Referred for Formal Disciplinary Action	Number of Final Disciplinary Decisions
2016/17	36	41
2017/18	28	19
2018/19	34	30
2019/20	6	18

Current Fiscal Year through October 31, 2019

### Average Days from Referral for Formal Disciplinary Action to Effective Date of Final Decision

Fiscal Year	Number of Days
2016/17	703
2017/18	585
2018/19	550
2019/20	590

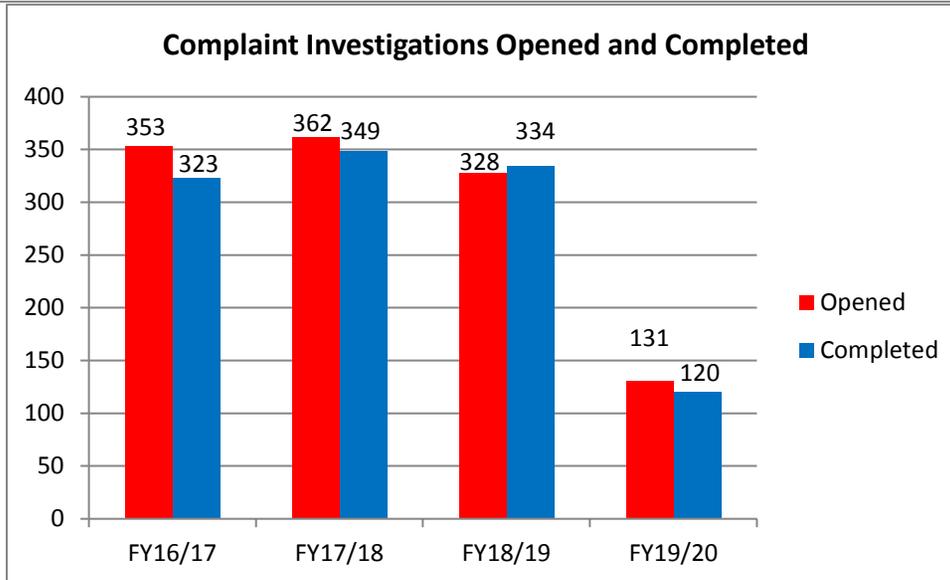
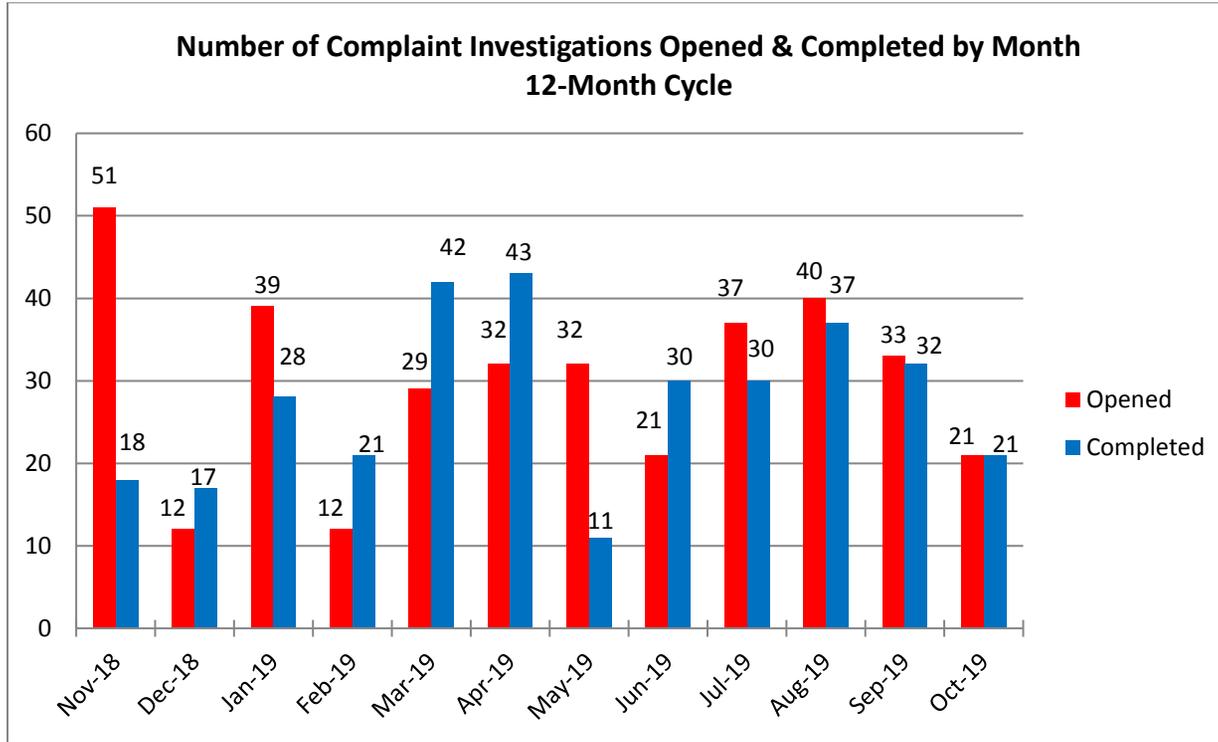
Current Fiscal Year through October 31, 2019

### Average Days from Opening of Complaint Investigation to Effective Date of Final Decision

Fiscal Year	Number of Days
2016/17	1106
2017/18	825
2018/19	923
2019/20	651

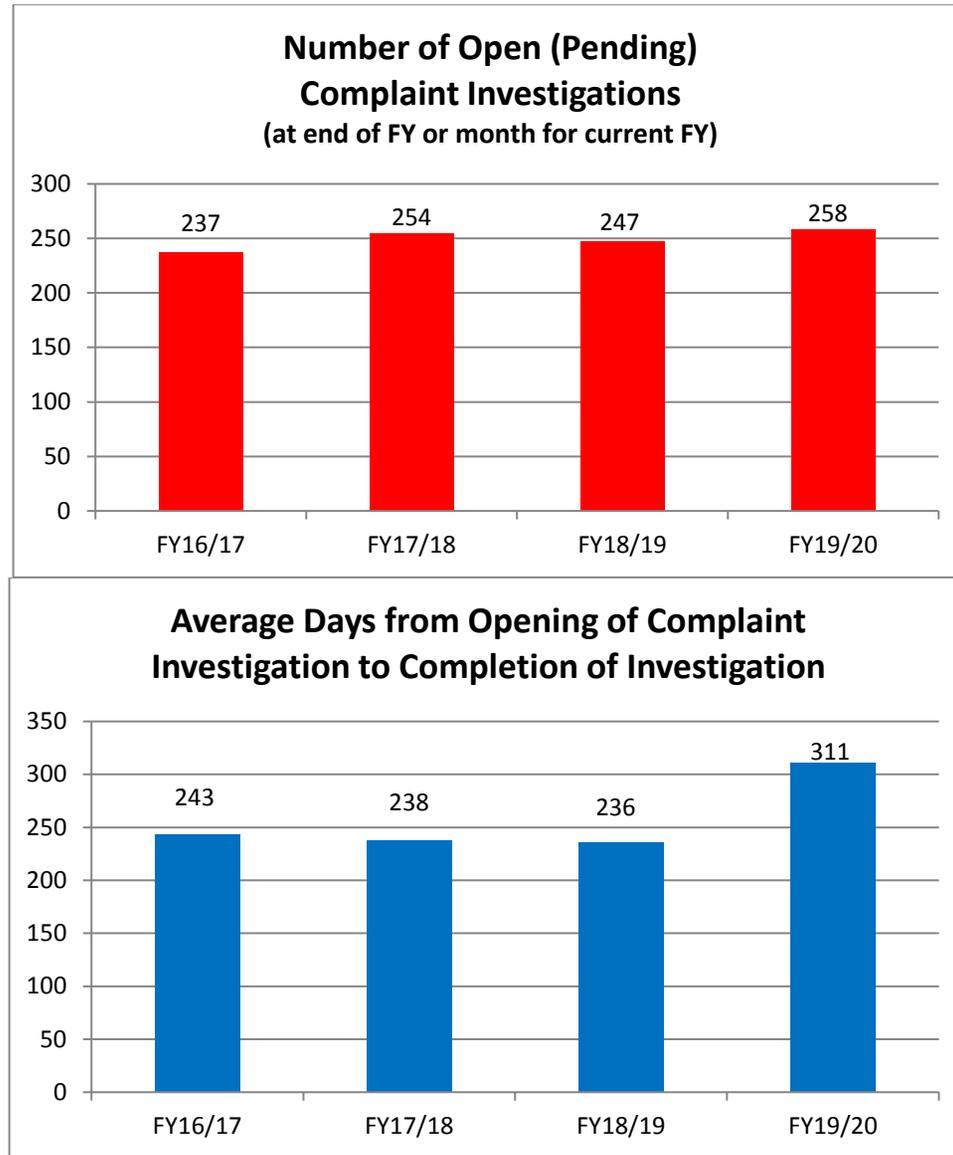
Current Fiscal Year through October 31, 2019

# Complaint Investigation Phase



NOTE: FY19/20 statistics are through October 31, 2019

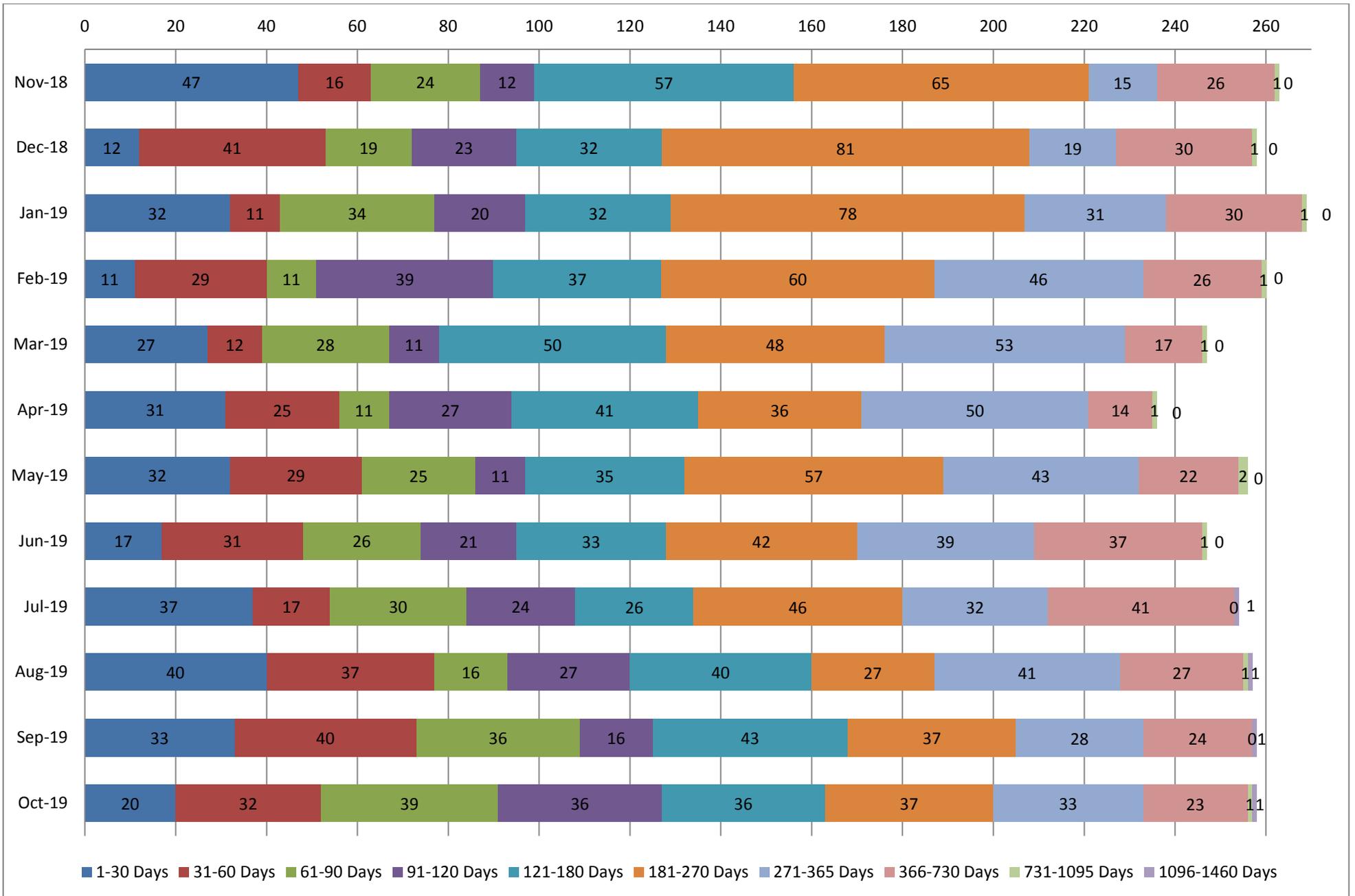
# Complaint Investigation Phase



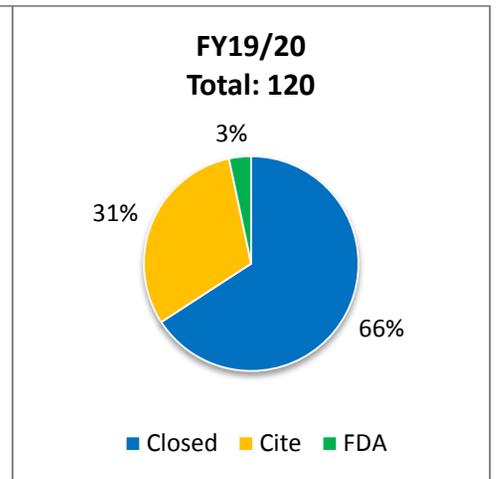
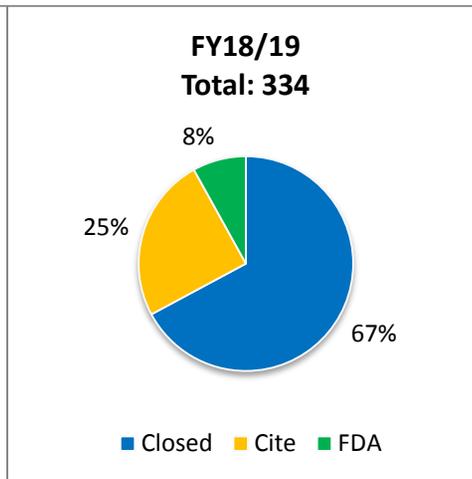
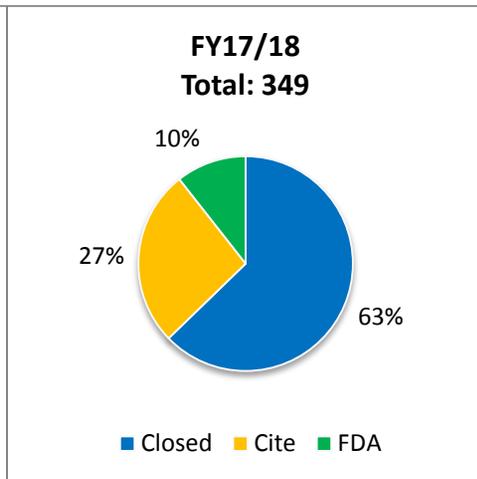
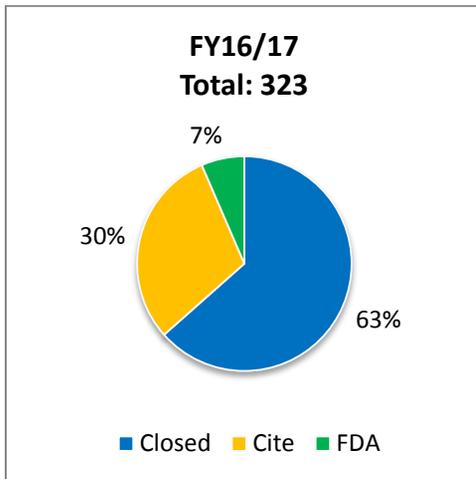
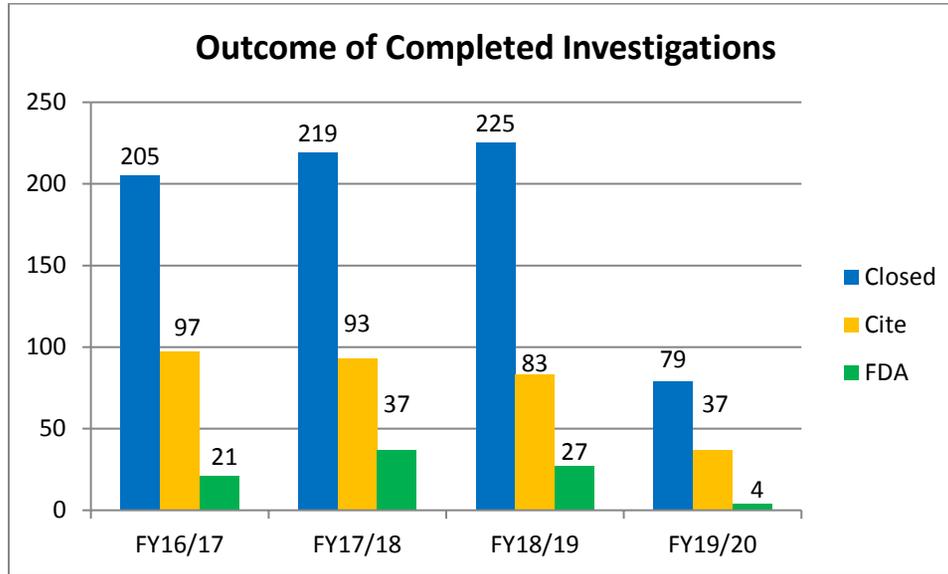
NOTE: FY19/20 statistics are through October 31, 2019

# Complaint Investigation Phase

## Aging of Open (Pending) Complaint Investigation Cases – 12-Month Cycle



# Complaint Investigation Phase Outcome of Completed Investigations



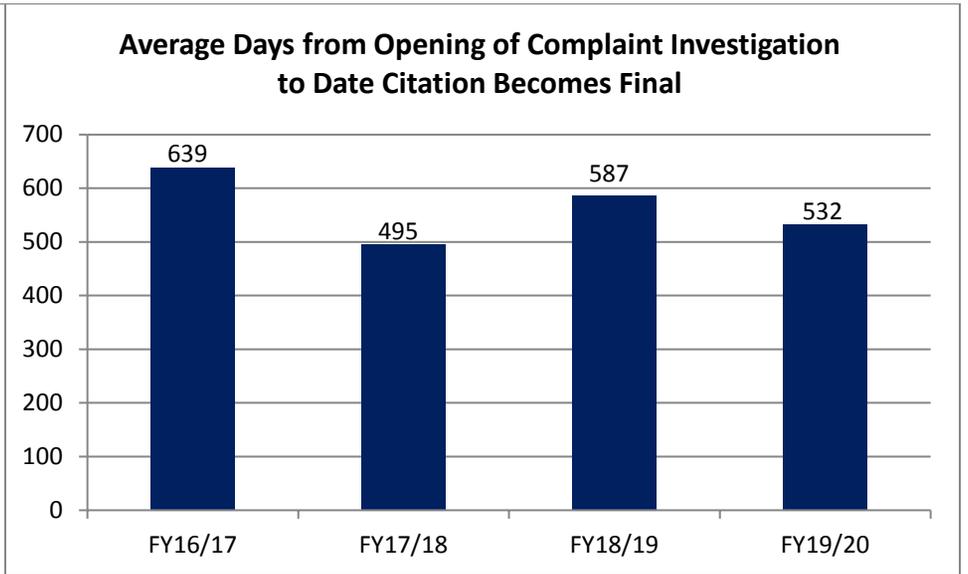
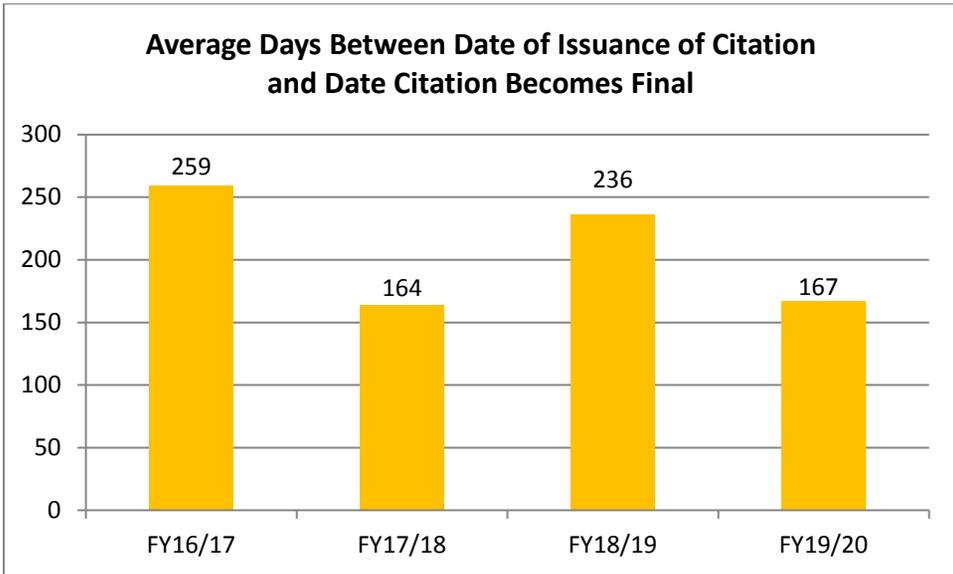
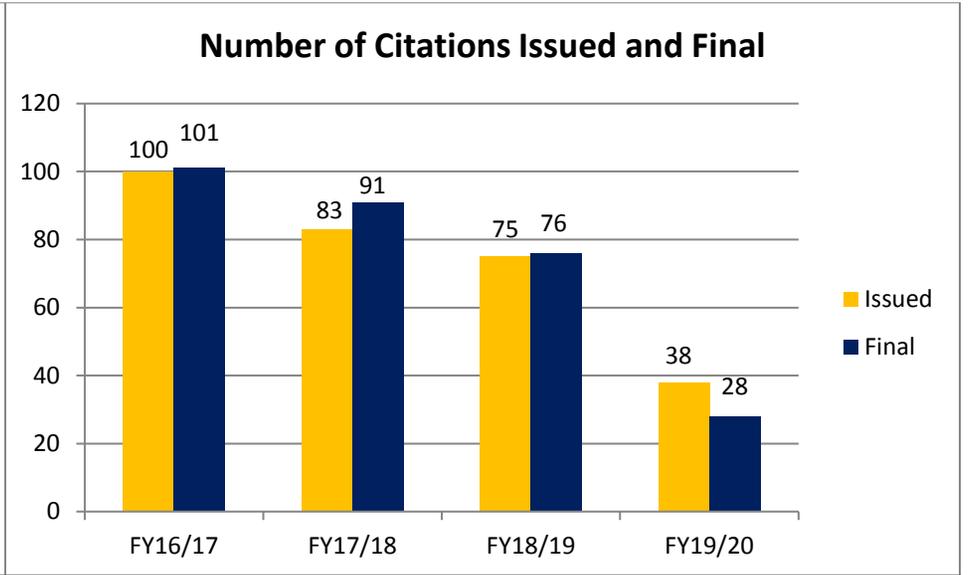
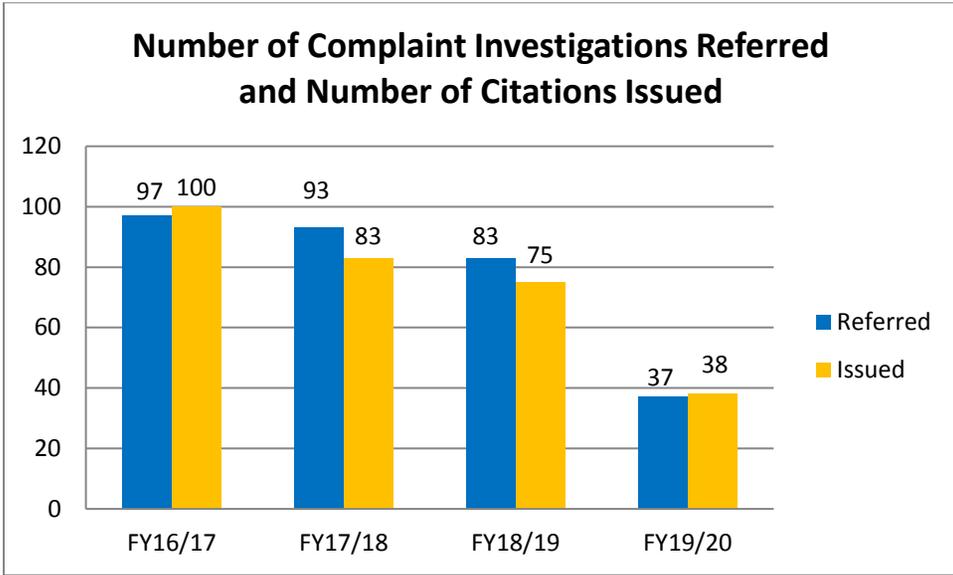
**NOTE: FY19/20 statistics are through October 31, 2019**

Closed with No Action Taken, includes the No Violation/Insufficient Evidence; Compliance Obtained; Warning Letter; Other Reason for Closing Without Action (e.g., subject deceased); Resolved After Initial Notification; Referred to District Attorney with Request to File Criminal Charges; and Mediated.

Cite = Referred for Issuance of Citation

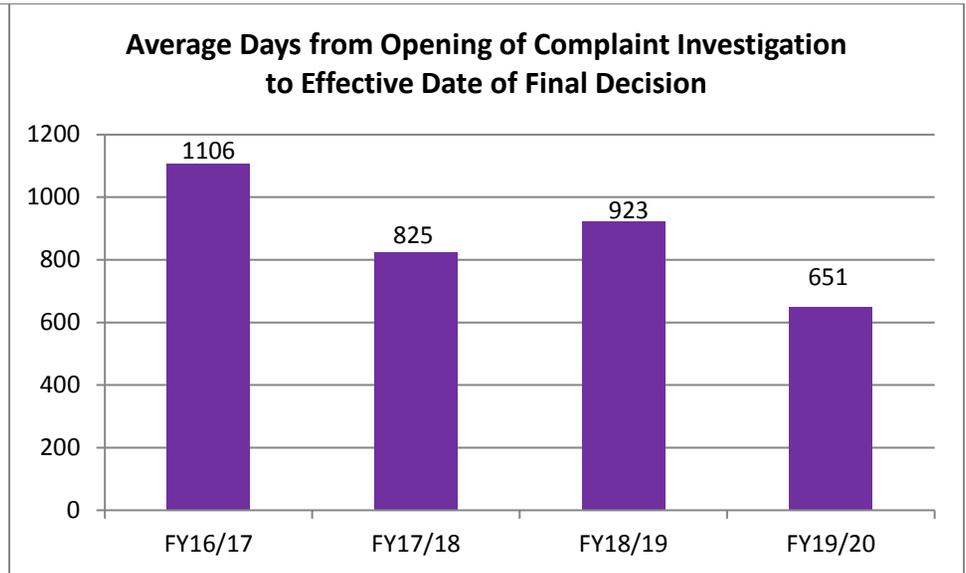
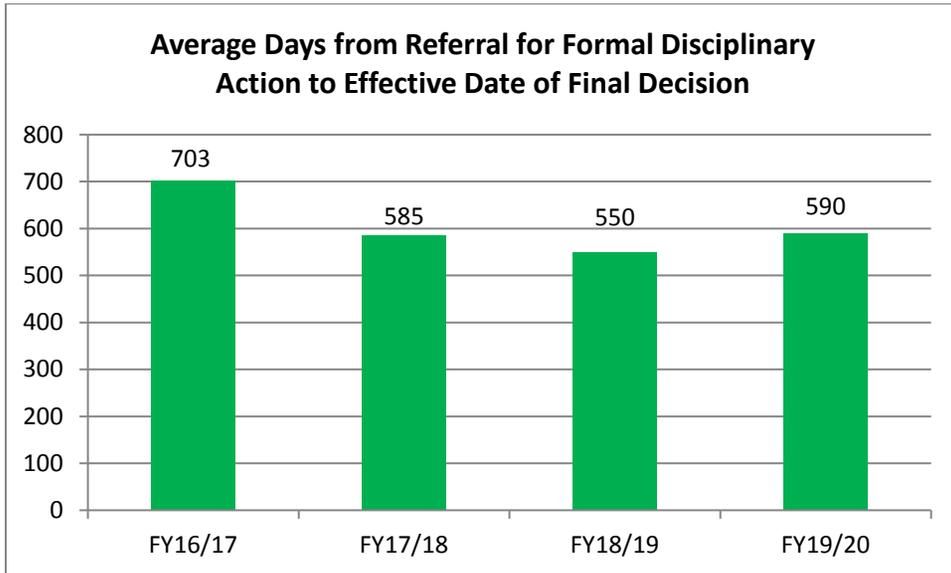
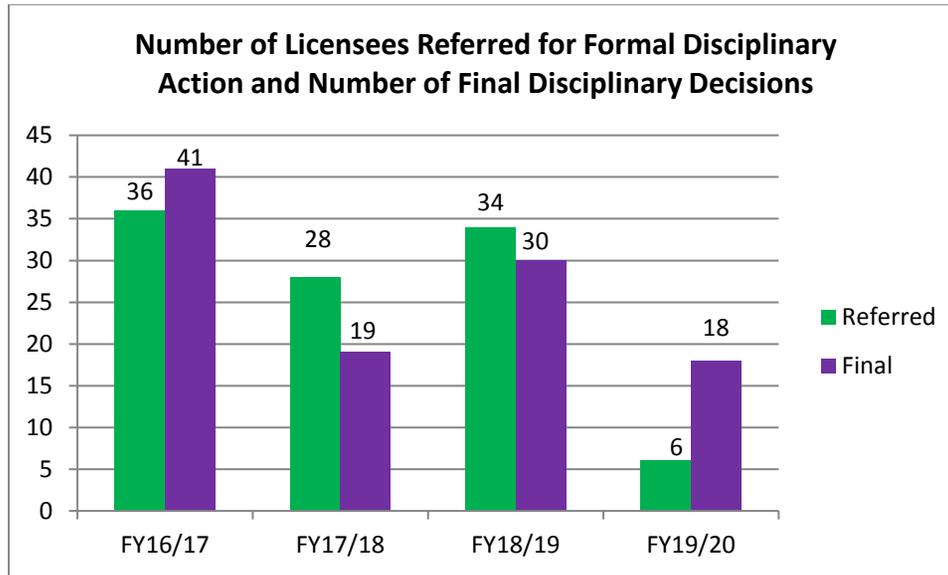
FDA = Referred for Formal Disciplinary Action

# Citations (Informal Enforcement Actions)



NOTE: FY19/20 statistics are through October 31, 2019

# Formal Disciplinary Actions Against Licensees



NOTE: FY19/20 statistics are through October 31, 2019



## **VII. Exams/Licensing**

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- A. Update on 2019 Examinations
- B. Third Quarter Examination Results
- C. Update on Alternate Item Types for California Examinations
- D. Adoption of Test Plan Specifications
  - 1. Professional Geologist – Certified Engineering Geologist (CEG) (Possible Action)
  - 2. Professional Geologist – Certified Hydrogeologist (CHG) (Possible Action)



## California State Specific Civil Engineer Examination Results Third Quarter 2019

### Civil Engineer - Seismic Principles

	Total Number of Candidates	Number Passed	Pass %
July	136	78	57%
August	218	115	53%
September	361	148	41%
<b>Total</b>	<b>715</b>	<b>341</b>	<b>48%</b>

### Civil Engineer - Engineering Surveying

	Total Number of Candidates	Number Passed	Pass %
July	127	71	56%
August	213	98	46%
September	355	135	38%
<b>Total</b>	<b>695</b>	<b>304</b>	<b>44%</b>



<b>BPELSG Certified Engineering Geologist-2019</b>	
	<b>Percentage of Questions on the Exam</b>
<b>I. Project Planning</b>  <u>Professional Activities:</u> <b>1. Review regional and site-specific geologic conditions that could impact a project based on available published and unpublished geologic and remote sensing (e.g. aerial imagery, LiDAR, InSAR) data</b> <b>2. Review provided project documents to identify potential impacts from geologic hazards</b> <b>3. Review on- and off-site conditions, history, and usage to identify the potential presence of on-site concerns (e.g., environmental, ecological, cultural, community history, geotechnical, health and safety)</b> <b>4. Prepare preliminary geologic models of existing and proposed conditions</b> <b>5. Define scope of engineering geologic investigations based on preliminary review of available data and coordination with other project professionals</b> <b>6. Perform site reconnaissance to assess topography, access, and hazards</b> <b>7. Identify California regulatory requirements for field exploration, monitoring, testing and reporting</b>	<b>15%</b>
<b>Test questions on these professional activities may include one or more of the following:</b>	
A. California regulations pertaining to exploration and sampling of contaminated soil and groundwater	
B. California guidelines for siting, design, construction, and monitoring landfills and disposal sites	
C. California guidelines, laws, and regulations for investigating sites for schools, hospitals, and essential services buildings	
D. Safety hazards and California regulations associated with explorations, excavations, trenches, rockfalls, earthwork, and underground construction	
E. California laws and regulations for permitting, construction, and field exploration	
F. California Building Code related to soils, foundations, structures, and grading with regards to engineering geology	
G. California requirements for seismic hazards investigations and reports	
H. Effects of historical land uses on current site conditions	
I. Sources of published and unpublished remote sensing (e.g. aerial imagery, LiDAR, InSAR) data, historical maps, and geologic and geotechnical information	
J. Interpretation of preliminary grading plans and specifications	
K. Construction methods and sequencing	
L. Chemical hazards from industrial, commercial, and mining operations	
M. Geometric relationship between boreholes, slopes and apparent dips of geologic structures	
N. Field measurement techniques to collect geologic and geotechnical data	

O. Advantages and disadvantages of sampling and testing methods to measure engineering properties of earth materials	
P. Recognition of field evidence of land modifications and past use	
Q. Engineering geologic investigations for surface water impoundments and control structures	
R. Capabilities and limitations of subsurface exploration equipment	
S. Methods to graphically represent engineering geologic conditions	
T. Site conditions regarding topography, access, and geologic hazards	
U. Planning for environmental geologic investigations	
<b>II. Data Collection</b>	
<b>Professional Activities:</b>	
1. Collect remote sensing (e.g. aerial imagery, LiDAR, InSAR) data, maps, plans, and sections from published sources, references, field sources, and public networks	
2. Map geomorphology, lithology, geologic structures, geologic and hydrogeologic features	
3. Log subsurface explorations (e.g., trenches, borings)	
4. Log stratigraphy, geologic and engineering properties of earth materials	
5. Characterize hydrogeologic conditions	
6. Collect representative samples of various geologic media (e.g., soil, rock, groundwater, vapor) for physical and laboratory testing	
7. Measure geophysical properties of earth materials	
8. Select laboratory tests for measuring physical, engineering, and chemical properties of earth materials	
9. Identify site specific input parameters for seismic ground motion analyses	
	<b>25%</b>
<b>Test questions on these professional activities may include one or more of the following:</b>	
A. Methods to characterize adverse soil and rock conditions (e.g., compressible, expansive, collapsible, heave, organic)	
B. Field techniques to collect engineering geologic and geotechnical data	
C. Remote sensing applications (e.g. aerial imagery, LiDAR, InSAR)	
D. Geologic and geomorphic conditions depicted on topographic and geologic maps	
E. Methods to measure, map, and describe geologic structures	
F. Techniques to log exploratory trenches and borings	
G. Methods to characterize engineering geologic properties of earth materials	
H. Standardized engineering soil and rock classification systems	
I. Soil pedogenesis for interpretation of subsurface conditions	
J. Methods to determine the occurrence, distribution, and quality of groundwater	
K. Rock core logging and sampling techniques	
L. Borehole instrumentation for geologic and hydrogeologic information	
M. Geophysical data, methods, and techniques	
N. Siting, logging, and sampling paleoseismic trenches	

O. Field and laboratory tests to evaluate hydrogeologic properties of earth materials	
P. Laboratory tests to evaluate physical and chemical properties of earth materials	
Q. Tests to assess performance and durability of rock and aggregate materials	
<b>III. Interpretation and Reporting</b>  <u>Professional Activities:</u> <b>1. Prepare and interpret geologic models (e.g., cross-sections, structure contours, isopach) from available data</b> <b>2. Analyze the results of laboratory testing</b> <b>3. Assess effects of erosional processes</b> <b>4. Assess static and dynamic slope stability</b> <b>5. Assess potential ground movement related to construction and natural processes</b> <b>6. Analyze remote sensing data (e.g. aerial imagery, LiDAR, InSAR) to identify geologic conditions</b> <b>7. Analyze hydrogeologic data</b> <b>10. Identify potential volcanic hazards</b> <b>9. Identify potential flood and debris flow hazards</b> <b>8. Identify earth materials (e.g., asbestos, chert, radon, clay, pyrite) that may be detrimental to projects and/or human health</b> <b>11. Identify hazards associated with coastal processes</b> <b>14. Perform seismic ground motion analyses</b> <b>13. Assess fault surface rupture hazards</b> <b>12. Assess seismic hazards</b> <b>15. Identify earthwork concepts and considerations (e.g., rippability, volume change, dewatering, drainage)</b> <b>16. Recommend installation of geotechnical instrumentation and analysis of associated data</b>	<b>40%</b>
<b>Test questions on these professional activities may include one or more of the following:</b>	
A. Geometric relationship between slope orientation and apparent dip of geologic structures	
B. Interpretation of geologic conditions on cross-sections	
C. Geometry, distribution, and strength characteristics of rock mass discontinuities	
D. Geomorphology pertaining to geologic hazards	
E. Geophysical methods, capabilities, and interpretation	
F. Standardized engineering soil and rock classification systems	
G. Application of rock and soil mechanics	
H. Effects of corrosive earth materials on engineered structures	
I. Physical and chemical weathering processes of rock and soil	
J. Evaluation and methods of mitigation of erosional and depositional processes	
K. Evaluation and methods of mitigation of slope instability	

L. Applicability of various slope stability analytical methods	
M. Stereonet uses	
N. Evaluation and mitigation of rockfall hazards	
O. Landslide types and characteristics	
P. Seismically-induced landslide displacement analysis	
Q. Identification of potential static and dynamic settlement	
R. Identification of potential land subsidence or rebound	
S. Geographic Information Systems (GIS) for engineering geologic purposes	
T. Remote sensing (e.g. aerial imagery, LiDAR, InSAR) data interpretation	
U. California guidelines, laws, and regulations for engineering geology reports for school, hospital, and essential services building sites	
V. California guidelines for engineering geology reports for surface water impoundments and control structures	
W. Evaluation and methods of mitigation of expansive soils and rock	
X. Application and analysis of flood hazard maps	
Y. Engineering properties of earth materials used in construction	
Z. Identification and significance of earth materials that may be detrimental to human health	
AA. Potential for mineral alteration or chemical properties of earth materials to adversely affect engineered projects	
BB. Evaluation and methods of mitigation of bluff instability and erosion along rivers and coastlines	
CC. Deterministic and probabilistic seismic hazard analyses	
DD. Earthquake ground motion analyses	
EE. Identification and analysis of potentially liquefiable soils	
FF. Methods of relative age dating of geologic materials	
GG. Geomorphic and field evidence of fault rupture	
HH. Field evidence of seismic shaking	
II. Methods to assess regional seismicity	
JJ. Seismic hazards and related zones	
KK. Methods for determining relative age of geomorphic features	
LL. Grading and excavation techniques and equipment capabilities and limitations	
MM. The effects of soil and rock properties on excavation methods	
NN. Potential adverse effects of construction to off-site properties	
OO. Geologic factors that affect fill compaction and performance	
PP. Dewatering methods	
QQ. Hydrogeologic properties of earth materials	
RR. Construction and interpretation of geologic structure and groundwater contour maps	
SS. California guidelines for siting, designing, constructing, and monitoring landfills and disposal sites	
TT. Site suitability for on-site storm water and waste water disposal	
UU. Engineering geology aspects of foundation and retaining structure design and construction	

<b>IV. Construction</b>  <u>Professional Activities:</u> <b>1. Review grading and development plans for conformance with geologic recommendations</b> <b>2. Observe and document conditions during construction for consistency with the geologic report</b> <b>3. Identify and report unanticipated field conditions and recommend mitigations</b> <b>4. Determine the need for monitoring instrumentation</b>	<b>20%</b>
<b>Test questions on these professional activities may include one or more of the following:</b>	
A. Methods to analyze temporary slope stability	
B. Recognition and methods of mitigation of landslides encountered during construction.	
C. Geologic site conditions that relate to California regulations safeguarding personnel engaged in excavations, trenches, and earthwork	
D. Cut and fill slope construction	
E. Earthwork construction practices and equipment	
F. Methods for ground improvement (e.g., use of geosynthetics, grouting, dynamic compaction, soil cement)	
G. Geologic aspects of foundation and retaining structure construction	
H. Methods to control groundwater (e.g., dewatering, wells, drains, hydraulic barrier)	
I. Recognition and mitigation of soil contamination	
J. California regulations pertaining to grading requirements	
K. Techniques to mitigate bluff instability and erosion along rivers and coastlines	
L. Influence of groundwater on slope stability	
M. Methods to analyze and mitigate rockfall hazards	
N. Methods of rock slope stabilization	
O. Methods to mitigate unstable slopes	
P. Mitigation methods for liquefaction and lateral spreading	
Q. Application of monitoring instrumentation and data evaluation	
R. Methods to mitigate unforeseen adverse soil and rock conditions	
S. California guidelines for constructing and monitoring landfills and disposal sites	
T. Geologic factors that affect various foundation types	
U. Methods and materials to mitigate erosion	
V. Methods to mitigate construction-related ground movement (e.g., differential settlement, subsidence, rebound)	
W. Methods and interpretation of field density tests	

## BPELSG Certified Hydrogeologist-2019

	Percentage of Questions on the Exam
<b>I. Project Planning</b>  <u>Professional Activities:</u> 1. Develop an investigation approach to achieve project objectives 2. Determine type, collection methods, quantity and quality of data, and method of data analysis needed to achieve project objectives based on anticipated geology 3. Identify technical requirements for hydrogeologic investigations 4. Determine regulatory requirements for hydrogeologic investigations 5. Examine potential off-site/on-site contaminant sources 6. Develop and refine a conceptual hydrogeologic model 7. Identify water quality criteria for the intended use 8. Determine the potential for saline water intrusion 9. Evaluate potential sources of water supply 10. Identify the potential need to control groundwater flow direction or head 11. Develop preliminary well design based on existing site data 12. Assess hydrogeologic factors in water management decisions	20%
<b>Test questions on these professional activities may include one or more of the following:</b>	
A. Applicable laws, regulations, permitting and policies pertaining to groundwater sampling, testing and reporting	
B. Regulatory agencies that have jurisdictional authority over water (e.g., supply, quality, rights, use, sustainability)	
C. Regional and local hydrogeologic conditions that may affect investigation approaches (e.g., basin boundaries, buried stream channels, proximity to pumping wells, utility trenches)	
D. Different site investigation methods (e.g., aquifer testing, geophysical techniques, soil and groundwater sampling)	
E. Laboratory methods to determine physical properties and chemical concentrations of soil, rock, water, gas, and waste samples	
F. Various drilling methods for different geologic settings	
G. The characteristics of different types of wells (e.g., siting, design, construction, development, testing, sampling)	
H. Methods for measuring groundwater levels, free product thickness, and field water quality parameters from wells	
I. Field testing and sampling methods for soil gas	
J. Groundwater monitoring program elements (e.g., frequency, data distribution)	
K. Aquifer testing methods and procedures, including their uses and limitations	
L. The elements of preparing a conceptual site model	

M. Quality assurance and quality control methods for hydrogeologic and water quality data	
N. Characteristics of groundwater basins and geologic environments	
O. The types and sources of potential groundwater contaminants associated with various categories of land uses, industrial processes, and geologic conditions	
P. The sources and quality of climate data related to hydrogeologic analysis	
Q. Aquifer characteristics and the principles of groundwater flow	
R. Potential groundwater effects from long-term land use and water management plans	
S. Dynamic relationship between fresh water and saline water in aquifers	
T. Tidal and barometric pressure effects on groundwater levels	
U. Elements of water budgets	
V. Elements of sustainable groundwater management	
W. Hydrogeologic factors related to on-site wastewater disposal (e.g., septic systems, land application, ponds, injection wells)	
X. Hydrogeologic factors related to surface water and storm water management	
<b>II. Data Collection</b> <u>Professional Activities:</u> <b>1. Collect hydrogeologic data from public and private sources (e.g., land use information, aerial photographs, remote sensing, historical records, online databases)</b> <b>2. Assess surficial conditions and site features in the field</b> <b>3. Map hydrogeologic features (e.g. springs, wetlands, wells, geologic structures)</b> <b>4. Collect samples and field data (e.g., lithology, stratigraphy, structure, moisture, water levels, flow, chemistry, geophysics, other properties)</b> <b>5. Apply quality control standards to the collection of data</b> <b>6. Assess the physical condition, construction, and performance of existing wells</b> <b>7. Conduct hydraulic testing (e.g., pumping and slug tests, stream gaging, other multi-well and single well tests)</b>	<b>22%</b>
<b>Test questions on these professional activities may include one or more of the following:</b>	
A. Sources and interpretive techniques for aerial photographs and remote sensing imagery	
B. Site reconnaissance elements related to hydrogeology (e.g., land modification, current conditions, past use)	
C. The relationships among geologic strata, hydrostratigraphic units and hydraulic characteristics	
D. How the properties of geologic media may affect contaminant and water migration through surface water, vadose zone, and aquifer	
E. Techniques and equipment to conduct single and multi-well aquifer tests	
F. Techniques and equipment to measure groundwater levels and non-aqueous phase liquid thickness in wells	
G. Techniques to estimate groundwater flow, direction, and velocity	

H. Borehole geophysical investigation techniques	
I. Methods to determine hydraulic properties of saturated and unsaturated earth materials	
J. Principles of well hydraulics and aquifer properties	
K. Techniques to measure well discharge and efficiency	
L. The principles of groundwater flow pertaining to confined and unconfined aquifers under pumping and steady state conditions	
M. Quality control standards	
<b>III. Evaluation and Analysis</b>  <u>Professional Activities:</u> <b>1. Evaluate hydrogeologic data from public and private sources (e.g., land use information, aerial photographs, remote sensing, historical records, online databases)</b> <b>2. Interpret aquifer test and other data to characterize hydrogeologic properties, boundaries, heterogeneity, and anisotropy in aquifers</b> <b>3. Prepare hydrogeologic inventory and water budget</b> <b>4. Assess surface water/groundwater interactions</b> <b>5. Characterize nature and extent of contamination</b> <b>6. Prepare illustrations and interpret trends from water level and/or quality data</b> <b>7. Evaluate fate and transport of contaminants</b> <b>8. Evaluate hydrogeologic effects of pumping wells, fluid injection, containment walls, reactive barriers, and subsurface structures on groundwater flow and quality</b> <b>9. Evaluate the hydrogeologic aspects of remedial technologies</b> <b>10. Estimate potential impact of anthropogenic activities (e.g., agricultural development, mining, energy, pumping) on surface and groundwater quality and supply</b> <b>11. Evaluate potential impact of groundwater recharge on water quality</b> <b>12. Develop, calibrate, and understand limitations and assumptions of numerical and analytical models</b>	<b>38%</b>
<b>Test questions on these professional activities may include one or more of the following:</b>	
A. Applicable laws, regulations, and policies pertaining to data collected for groundwater use and protection	
B. The interpretation of relationships among geologic strata, hydrostratigraphic units, and hydraulic characteristics	
C. Data evaluation to establish background conditions in soil and groundwater	
D. Potential groundwater contaminants associated with various categories of land use and industrial processes	
E. The effects of anthropogenic modifications on subsurface drainage and groundwater flow conditions	
F. Statistical methods to evaluate soil or groundwater data	
G. Graphical and tabular techniques for analysis and presentation of hydrogeologic data	

H. Methods to determine groundwater flow directions and horizontal and vertical hydraulic gradients	
I. Data selection for groundwater potentiometric surface maps	
J. Water chemistry evaluation (e.g., stable isotope studies, radiometric dating, major ion distribution, contaminants)	
K. Techniques to analyze aquifer test data	
L. Unsaturated zone and soil vapor migration principles	
M. Causes and effects of land subsidence	
N. Procedures for calculating recharge rates	
O. Techniques and procedures used for water budget evaluations	
P. The interaction between groundwater and surface water	
Q. Land use effects on water resources	
R. Methods to calculate groundwater flow rates, mass flux, and volume	
S. The effects of boundary conditions on water levels during pumping	
T. Methods for evaluating changes in groundwater storage	
U. Principles and methods to estimate natural attenuation	
V. The chemical and biochemical transformation of organic and inorganic compounds	
W. Groundwater flow and solute transport modeling principles including their assumptions and limitations	
X. Numerical models, including calibration, sensitivity analysis, and uncertainty analysis	
Y. The similarities and differences in fractured and porous groundwater flow systems	
Z. Wellhead protection areas	
AA. Comparative evaluation of hydrogeologic aspects of remedial alternatives	
BB. Data evaluation from pilot tests for water supply, dewatering, and remediation	
CC. Evaluation of available water supply and sustainable groundwater management	
<b>IV. Application</b>	<b>20%</b>
<b><u>Professional Activities:</u></b>	
<b>1. Prepare design recommendations for groundwater production, extraction and injection wells</b>	
<b>2. Design, install and develop wells and piezometers</b>	
<b>3. Develop subsurface monitoring programs</b>	
<b>4. Prepare design recommendations for dewatering or collection systems</b>	
<b>5. Design and implement well rehabilitation programs</b>	
<b>6. Prepare design recommendations for hydrogeologic related projects (e.g., groundwater remediation, groundwater management, aquifer storage, and groundwater replenishment programs)</b>	
<b>7. Develop plans for the destruction of wells and boreholes</b>	
Test questions on these professional activities may include one or more of the following:	

A. Borehole drilling and well construction techniques to prevent cross-contamination	
B. Drilling techniques and construction practices for different types of wells	
C. Well design (e.g., screen size, filter pack selection, casing type)	
D. Well development and testing	
E. Procedures for well maintenance and rehabilitation	
F. Techniques and regulations for well destruction	
G. Hydrogeologic factors and analytical techniques to design a well field for groundwater extraction or injection	
H. Soil, soil vapor and groundwater remediation methods, performance and optimization	
I. Methods for estimating natural and artificial groundwater recharge	
J. Hydrogeologic factors for evaluating the effectiveness of groundwater management actions and groundwater sustainability projects	
K. Hydrogeologic requirements pertaining to the investigation, location, and operation of waste disposal and treatment facilities	

## **VIII. Executive Officer's Report**

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- A. Rulemaking Status Report
- B. Update on Board's Business Modernization/PAL Process
- C. Personnel
- D. ABET
- E. Association of State Boards of Geology (ASBOG)
  - 1. Report on the 2019 Annual Meeting
- F. National Council of Examiners for Engineering and Surveying (NCEES)
  - 1. Member Board Administrator Committee – Draft Resolution of Cooperation (Possible Action)
  - 2. Nomination of Associate Members (Possible Action)
  - 3. Nomination for Western Zone Assistant Vice President (Possible Action)
  - 4. Out-of-State Travel Request for April 2020 Combined Interim Zone Meeting (Possible Action)
- G. Update on Outreach Efforts
- H. Unlicensed Activity Research – Enforcement Statistics



## Rulemaking Overview

### 1. Fees and Certificates (404, 410, 3005, and 3010)

- Initial review with Control Agencies (i.e. DCA and Agency) for approval of rulemaking package on May 30, 2019.
  - Board directed staff to pursue initial rulemaking on November 1, 2018.

### 2. Repeal Professional Engineer and Land Surveyor Appeals (443 and 444)

- Initial rulemaking package submitted to DCA Legal for review on September 5, 2019.
  - Board directed staff to pursue initial rulemaking on March 1, 2013.

### 3. Assembly Bill 2138 Conformance (416, 418, 3060, and 3061)

- Initial review with DCA Legal for approval of rulemaking package on June 11, 2019.
  - Board directed staff to pursue initial rulemaking on February 21, 2019.

### 4. Definition of Traffic Engineering (404)

- Developing initial rulemaking package to submit to DCA, Legal, and Budget Office.
  - Board directed staff to pursue initial rulemaking on March 8, 2018.

### 5. Definitions of Negligence and Incompetence (3003 and 3003.1)

- Developing initial rulemaking package to submit to DCA, Legal, and Budget Office.
  - Board directed staff to pursue initial rulemaking on September 6, 2018.

**Note:** Documents related to any rulemaking file listed as “noticed” can be obtained from the Board’s website at [http://www.bpelsg.ca.gov/about\\_us/rulemaking.shtml](http://www.bpelsg.ca.gov/about_us/rulemaking.shtml).



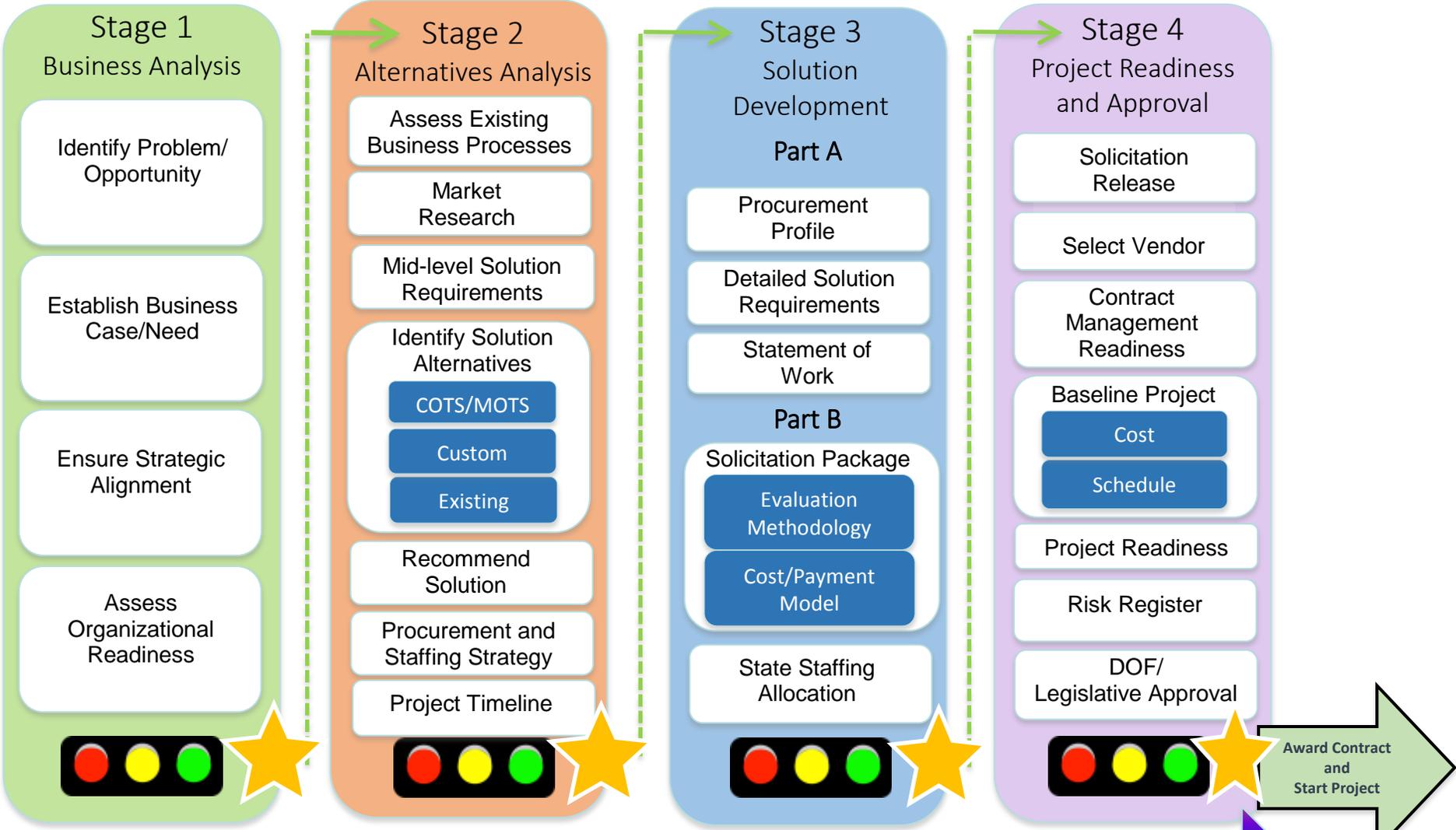
## BPELSG Licensing System Project Timeline

<b>2019</b>
<ul style="list-style-type: none"> <li>• Project Approval Lifecycle (PAL) Stage 4 (S4) Project Readiness and Approval (PRAA) kickoff meeting with the California Department of Technology (CDT) - October</li> <li>• Stage 3 (S3) Solution Development (SD) approved by CDT - August</li> <li>• S3SD submitted to CDT – August</li> <li>• S3SD approved by Business, Consumer Services and Housing Agency (Agency)– August</li> <li>• S3SD submitted to Agency - August</li> <li>• Senate and Assembly Budget Subcommittees approved Spring Finance Letter (SFL) for project funding – May</li> <li>• S3SD kickoff meeting with CDT - April</li> <li>• CDT approved Stage 2 Alternatives Analysis (S2AA) – March</li> <li>• Finalized SFL for project funding and inclusion in Governor’s May [Budget] Revise - January</li> </ul>
<b>2018</b>
<ul style="list-style-type: none"> <li>• Submitted S2AA to CDT - December</li> <li>• Agency approved S2AA - December</li> <li>• Submitted S2AA to Agency - November.</li> <li>• Submitted S2AA to DCA Office of Information Services (OIS) – October</li> <li>• System demonstrations from various vendors – July through September</li> <li>• Completed contract with Business Advantage Consulting (BAC) - July</li> <li>• S2AA Kickoff meeting with DCA, OIS, and CDT - June</li> <li>• Completed mid-level solution requirements draft with BAC vendor - April</li> <li>• Nationwide market research with other regulatory programs - March</li> <li>• BreEZe system demonstration provided by DCA and OIS - March</li> <li>• Stage 1 Business Analysis (S1BA) approved by CDT - February</li> <li>• Executed contract with BAC - January</li> </ul>
<b>2017</b>
<ul style="list-style-type: none"> <li>• Contract awarded to BAC - November</li> <li>• S1BA approved by Agency - November</li> <li>• DCA OIS submitted Business Modernization Plan (BMP) to Legislature November</li> <li>• BMP submitted to Board members - November</li> <li>• DCA OIS developing BMP - September</li> <li>• Submitted S1BA to DCA, OIS, Agency, and CDT - September</li> <li>• System demonstrations from various vendors – January through May</li> </ul>

## 2016

- Completed contract with Visionary Integration Professionals (VIP) - December
- Completed stakeholder requirements gathering - November
- Completed To-Be workshops - October
- Completed As-Is business process workshops - August
- Identified business processes directly associated with licensing, regulation, and enforcement - June
- Executed contract with VIP to conduct a business process improvement study - June

# Project Approval Lifecycle Framework



Department of Technology Oversight and State Entity Collaboration



### **NCEES - Member Board Administrator's Committee Draft Resolution of Cooperation**

The Member Board Administrator's Committee (MBA) distributed a draft Resolution of Cooperation (ROC) to all member boards, soliciting comments/feedback. The MBA intends to compile feedback and provide a final resolution to member boards at the April Combined Zone Interim meeting for signature by all participating boards.

#### **BPELSG Mission Statement:**

We protect the public's safety and property by promoting standards for competence and integrity through licensing and regulating the Board's professions.

#### **BPELSG Vision Statement:**

A California that leads the nation in protecting the public and environment with competent and ethical professional services by the Board's licensees

#### **NCEES Mission Statement:**

The mission of NCEES is to advance licensure for engineers and surveyors in order to safeguard the health, safety, and welfare of the public.

This mission is supported through its member boards, board of directors, staff, board administrators, and volunteers by:

- Providing outstanding nationally normed examinations for engineers and surveyors
- Providing uniform model laws and model rules for adoption by the member boards
- Promoting professional ethics among all engineers and surveyors
- Coordinating with domestic and international organizations to advance licensure of all engineers and surveyors

#### **NCEES Vision Statement:**

The vision of NCEES is to provide leadership in professional licensure of engineers and surveyors through excellence in uniform laws, licensing standards, and professional ethics in order to safeguard the health, safety, and welfare of the public and to shape the future of professional licensure.

#### **Staff Comments:**

The determination of whether the California Board should agree to sign this ROC is a Board policy decision. Staff has concerns with the current draft of the ROC related to the public's perception of the authority of this document and how the ROC will be used, portrayed, or distributed by NCEES or any of the other member boards.

While there remains a question as to whether the ROC would be legally binding upon signatories, Staff suggests the Board consider:

- What perception this document could have on the public's understanding of the Board's policies, laws, and regulations (e.g., Would people think any statements in this ROC would override the Board's official and properly vetted policies, laws, and regulations if any statements were in conflict with those laws or policies?)
- Could this ROC conflict with the Board's mission, vision, or laws and policies?
- Could this ROC subject the Board to scrutiny pertaining to conflicts with the Board's proper legislative/regulatory processes?

Staff recommends that the Board at minimum provide direction to Staff in the form of feedback/concerns/questions/revisions that can be provided to the MBA Committee at NCEES for consideration. It is anticipated that a final draft will be distributed prior to the April NCEES Combined Interim Zone meeting and available for the Board to further discuss before making a determination on whether the California Board should agree to sign the ROC.

## **NCEES – Nominations for Associate Members**

The Board currently has 6 Associate Members approved by NCEES (Ric, Nancy, Tiffany, Larry, Mike, and Dallas)

Seeking the Board to formally recommend Natalie King, Senior Registrar Civil Engineer, and Candace Cummins, Licensing Unit Manager, as Associate Members of the California Board to NCEES.

In her role at the Board, Natalie is very involved in the development of the state civil engineering examinations and outreach related to licensure. It is hoped that submitting a request to the NCEES Board of Directors to approve Natalie as an Associate Member of our Board, she can be selected for committee assignments and serve on exam development efforts for the national civil engineering examinations.

And in her role as Manager overseeing the Board's licensing processes, it is vital for Candace to continually be made aware of NCEES's role in our licensing process.

Associate Member status also allows selection as a funded delegate to NCEES's meetings which should benefit the Board in maintaining an understanding for how the national engineering and surveying exams meet California's criteria for licensing.





# BOARD OUTREACH REPORT

3<sup>rd</sup> Quarter: July–September 2019

## SOCIAL MEDIA AND WEB PAGE VIEWS

 TOP 5 TWEETS	DATE	VIEWS
Geology and Geophysics Video Available	September 11	1,340
Public Outreach Video Available	September 10	1,147
Notice and Agenda (October)	September 30	1,207
Meeting Materials (September)	August 30	489
Board Notice and Agenda (February)	August 16	224

 TOP 5 FACEBOOK POSTS	DATE	VIEWS
Geology and Geophysics Video Available	September 11	4,700
Public Outreach Video Available	September 10	3,328
Meeting Materials (September)	August 30	875
Notice and Agenda (September)	August 16	776
Notice and Agenda (October)	September 30	665

 TOP 5 WEBPAGE HITS	VIEWES
License Lookup—Board of Professional Engineers, Land Surveyors, and Geologists	308,443
Board of Professional Engineers, Land Surveyors, and Geologists	183,135
Application Information—Board of Professional Engineers, Land Surveyors, and Geologists	129,284
Professional Engineer Application—Board of Professional Engineers, Land Surveyors, and Geologists	106,253
Licensee Information—Board of Professional Engineers, Land Surveyors, and Geologists	94,853



## OUTREACH EVENTS

### University Outreach

#### APRIL

##### **April 3–4:** Cal Poly, San Luis Obispo

Several presentations on the path to professional licensure by Mike Donelson, P.E., and Brooke Phayer.



##### **April 11–12:** San Diego State University

Several presentations on the path to professional licensure by Mike Donelson (below), P.E., and Brooke Phayer.



##### **April 12:** California State University, Sacramento

Laurie Racca, P.G., teamed with a representative of the California Geological Survey for a presentation to geology students and faculty regarding professional licensing requirements. The presentation encouraged students to begin taking control of their future careers by understanding licensing requirements, explained how having a professional license affects their career options, and encouraged attendees to keep up-to-date both with the standards of the profession and with activities at the Board.



# BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

## University Outreach

### APRIL

#### **April 17–19: San Jose State University**

Outreach coordinator Brooke Phayer attended the annual Mid-Pacific Conference for civil engineering programs, which included the University of California, Berkeley; Chico State; San Francisco State; San Jose State; Santa Clara University; University of California, Davis; Sacramento State; University of the Pacific; and Fresno State.

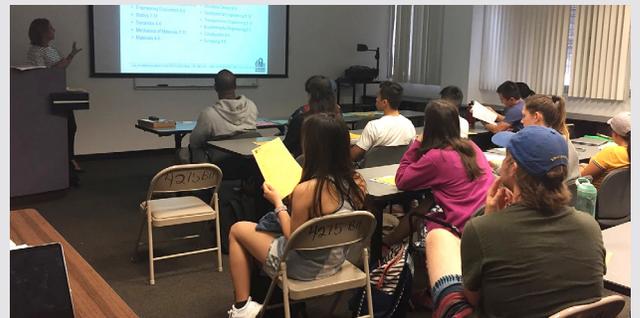


**April 18: California State University, San Bernardino**  
Student/faculty presentation to provide information regarding professional licensing requirements by Laurie Racca, P.G.

**April 23: University of California, Riverside**  
Presentations on the path to professional licensure: two student presentations and one faculty presentation by Natalie King, P.E., and Mike Donelson, P.E.



**April 23: University of California, Los Angeles**  
ASCE student chapter presentation on the path to professional licensure by Mike Donelson, P.E., and Natalie King, P.E.



**April 25: Cal Poly, Pomona**  
ASCE student chapter presentation on the path to professional licensure by Natalie King, P.E.

**April 25: California State University, Fullerton**  
ASCE student chapter presentation on the path to professional licensure by Natalie King, P.E.



# BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

## University Outreach

### APRIL

**April 30:** *University of California, Davis*  
ASCE student chapter presentation on the path to professional licensure by Natalie King, P.E.



### MAY

**May 1:** *California State University, Northridge*  
Presentation on the path to professional licensure by Mike Donelson, P.E.

**May 6:** *California State University, Sacramento*  
Presentation on the path to professional licensure by Natalie King, P.E., and Mike Donelson, P.E.

**May 7:** *California State University, Sacramento*  
Additional presentation by Natalie King, P.E.

**May 17:** *University of California, Riverside*  
Laurie Racca, P.G., encouraged students to obtain their Geologist-in-Training certificate by taking the national Fundamentals of Geology examination as soon as they are qualified.

### JUNE

**June 6:** *University of California, Davis*  
Senior Project Day attended by Mike Donelson, P.E., and Brooke Phayer with video interviews by the Department of Consumer Affairs' Office of Public Affairs.



# BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

## Professional Outreach

### APRIL

#### **April 17:** *San Diego*

Record of Survey Workshop given by Dallas Sweeney, PLS, and Ric Moore, PLS.

#### **April 26:** *Turlock*

Record of Survey Workshop given by Dallas Sweeney, PLS, and Ric Moore, PLS.

#### **April 26:** *Redding*

ASCE Shasta Branch presentation on the process of obtaining a license in California by Dr. M. Qureshi, P.E., who visited with the Shasta Branch of ASCE as it attempts to re-launch its branch. There were 17 audience members who were mostly recent graduates interested in licensure as civil or electrical engineers.

### MAY

#### **May 15:** *Webinar*

The Board's Geology and Geophysics Program participated in a California-specific licensure webinar hosted by the American Geosciences Institute Geoscience Online Learning Initiative. This webinar was a follow up to the joint BPELSG/National Association of State Boards of Geology, February 2019 webinar providing an overview of geology licensing. This webinar was divided into two parts and covered the following:

- California Professional Geologist License Qualification Requirements
  - Types of licenses (P.G., PGp, CEG, CHG)
  - Qualification requirements
  - Overview of the application process
- Understanding Key Concepts in California Geology License Laws and Regulations
  - Brief history of licensure in California
  - Common myths and misconceptions
  - Important concepts

The webinar was recorded and is available online for free viewing here: [www.americangeosciences.org/webinars/professional-geologist-licensure-requirements-california-2019](http://www.americangeosciences.org/webinars/professional-geologist-licensure-requirements-california-2019).

Laurie Racca, P.G., participated in the organization and presentation of this webinar.

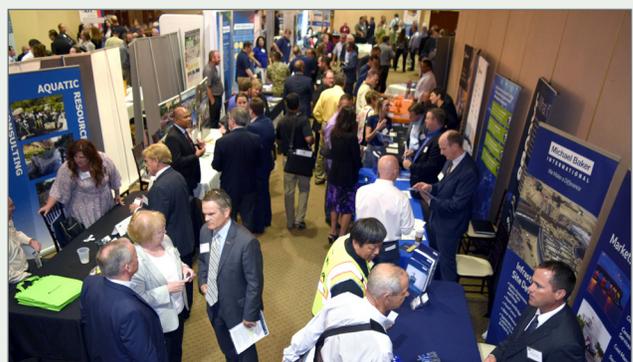
### JUNE

#### **June 18–19:** *Bakersfield and Long Beach*

The California Department of Conservation (DOC), Division of Oil, Gas and Geothermal Resources (DOGGR), requested that the Board provide presentations on licensure requirements to staff in each of their offices. Enforcement Manager Tiffany Criswell, Senior Registrar Mike Donelson P.E., and Senior Registrar Laurie Racca P.G., provided information to staff in these DOGGR regional offices. Additional presentations are planned for other DOGGR offices throughout the summer.

#### **June 20:** *Camp Pendleton Military Base*

Information on the path to professional licensure for current and retired military personnel given by Mike Donelson, P.E., at the annual military educational event.





# BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

## Professional Outreach

JUNE

**June 26:** Ventura  
Monument Preservation Seminar given by Dallas Sweeney, PLS.

**June 26:** Santa Barbara  
Monument Preservation Seminar given by Dallas Sweeney, PLS.

**June 26:** Altec Engineering  
Presentation on the path to professional licensure given by Mike Donelson, P.E.

**June 27:** Santa Maria  
Monument Preservation Seminar given by Dallas Sweeney, PLS.

## Fall 2019 Bulletin:

[www.bpelsg.ca.gov/pubs/bulletin.latest.pdf](http://www.bpelsg.ca.gov/pubs/bulletin.latest.pdf)

## Printed Promotional Pieces

ABET Program promotional piece for annual college mailing

School Year	Event Attended	In-Class	Career Fair	Senior Project Day	Student Club Presentation
2015-16	Cal Poly, San Luis Obispo	CSU Sacramento	CSU Northridge	UC Davis	
2016-17	Cal Poly, San Luis Obispo	CSU Sacramento	UCIA	UC Davis	USC
2017-18	Cal Poly, San Luis Obispo Fresno State Loyola Marymount UC Irvine USC UCLA Humboldt State	CSU Sacramento UCLA UC Irvine UC San Diego	CSU Northridge UC Davis Pacific	CSU Sacramento UCLA	

\*Through June 30, 2018

**Supporting Our Certificate Holders and Licensees**

Results and changes in our applicant and licensing population to examine and Council of Examiners for Engineering and Surveying (NCEES) that will allow us to meet the national average.

(California vs. National)

**Fundamentals Exam Stats**

The Fundamentals of Engineering (FE) exam is a crucial component of the initial licensing process. Passing this exam puts you on the path toward professional licensure. The FE chart below provides data from the National Council of Examiners for Engineering and Surveying (NCEES) exam provider ([www.ncees.org](http://www.ncees.org)). After passing the exam, individuals seeking to continue on to licensure.

**2018 Total Licenses Issued**

California has the largest state population of licensed engineers in the U.S. Let's take a closer look at the population and number of licensed professionals.

\*Does not include title authority or certificate holders (geotechnical, structural, environmental, geotechnical, and hydrogeological).

**2018 Total Active Licensees**

\*Does not include title authority or certificate holders (geotechnical, structural, environmental, geotechnical, and hydrogeological).

**2018 Data (California)**

**65%** PASS RATE of all test takers

**3,596** Total number of certificate holders

**Number of licenses issued in 2018 and the locations of field and received a California license.**

**TOTAL: 2,322** International Licenses Issued 14

**FALL 2019** BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

# BULLETIN

**FEATURES**

- 3 President's Message
- 5 Future of Geology as a Profession
- 7 Digging Deeper: Understanding Our Certificate Holders and Licensees

**In Every Issue**

- 1 Message from the Executive Officer
- 4 Board News
- 4 Board Members
- 6 Get to Know Our Licensees
- 13 Enforcement Actions
- 15 Legislation and Regulation News and Updates
- 15 In Memoriam
- 16 Outreach Events
- 20 Board Speakers Available
- 20 Board Subscribers List Reminder
- 20 Contact Us
- 21 Board Calendar
- 21 Social Media

**Message from the Executive Officer**

RICHARD B. MOORE, PLS

The 2019 legislative sunset review of the Board is in its final stages and at the time of this writing is on the agenda of the Senate Appropriations Committee for consideration. Assuming a favorable result from that committee, the sunset review bill (AB 1522) will be voted on by the full Senate and Assembly prior to being presented to the governor for endorsement and chaptering. Changes from this bill will become effective January 1, 2020, and extend the Board's mission for another four years.

Representatives from the Board recently attended the NCEES (National Council of Examiners for Engineers and Surveyors) Annual Meeting in Washington, D.C., during which reports and motions pursuant to the examination and licensing of engineers and land surveyors were debated and acted upon by all 70 member boards from across the nation. In addition to receiving reports on the various national examinations, Board representatives considered many motions, both the published agenda and additional motions introduced during the floor discussions. Also considered was the possible impact any of these changes would have on the consumers in California and the individuals licensed by the Board who provide engineering and surveying services to those consumers.

Two motions were of particular interest to the Board as both could potentially have some impact on the licensing criteria used by all states to evaluate and measure competency of the potential candidates for licensure.

First was a motion to determine the acceptability of an engineering technology degree that is accredited by ABET as acceptable criteria for licensure as a professional engineer. To put this in context, ABET has two primary forms of accreditation for engineering programs: EAC (Engineering Accreditation Commission) and ETAC (Engineering Technology Accreditation Commission). Degrees gained from an EAC program are more commonly accepted (or in many cases, required) in full by licensing boards across the nation while degrees

(continued on page 2)

BPELSG.CA.GOV

## UNLICENSED ACTIVITY RESEARCH – ENFORCEMENT STATISTICS

### Breakdown of Complaint Investigations

Fiscal Year	Total Number of Complaint Investigations Cases Opened	Number Involving Unlicensed Activity Allegations	Number Involving Unlicensed Activity Filed by Licensees
15/16	368	101	29
16/17	353	126	28
17/18	362	90	28
18/19	328	105	34

### Number of Complaints Opened Involving Unlicensed Activity Based on Act(s) Involved

Fiscal Year	PE Act	G&G Act	PLS Act
15/16	61	1	46
16/17	68	25	47
17/18	48	14	39
18/19	58	14	43

May add up to more than the number opened since cases may involve allegations of violations of more than one act (e.g., unlicensed person offering both engineering and land surveying would be counted as one case for number opened but under both PE Act and PLS Act for violations).

### Number of Complaints Opened Involving Unlicensed Activity Filed by Licensees Based on Act(s) Involved

Fiscal Year	PE Act	G&G Act	PLS Act
15/16	14	0	15
16/17	12	4	16
17/18	15	7	10
18/19	13	2	19

May add up to more than the number filed by licensees since cases may involve allegations of violations of more than one act (e.g., unlicensed person offering both engineering and land surveying would be counted as one case for number filed but under both PE Act and PLS Act for violations).

## UNLICENSED ACTIVITY RESEARCH – ENFORCEMENT STATISTICS

### Breakdown of Citations Issued

Fiscal Year	Total Number of Citations Issued (Licensed and Unlicensed)	Citations Issued for Unlicensed Activity
15/16	78	26
16/17	100	42
17/18	83	34
18/19	75	18

### Number of Citations Issued for Unlicensed Activity Based on Act(s) Involved

Fiscal Year	PE Act	G&G Act	PLS Act
15/16	11	6	12
16/17	14	6	18
17/18	19	3	17
18/19	6	8	8

Citations may involve violations of multiple acts (e.g., unlicensed person offering both engineering and land surveying) and so would be counted under multiple acts (e.g., both PE Act and PLS Act for violations).

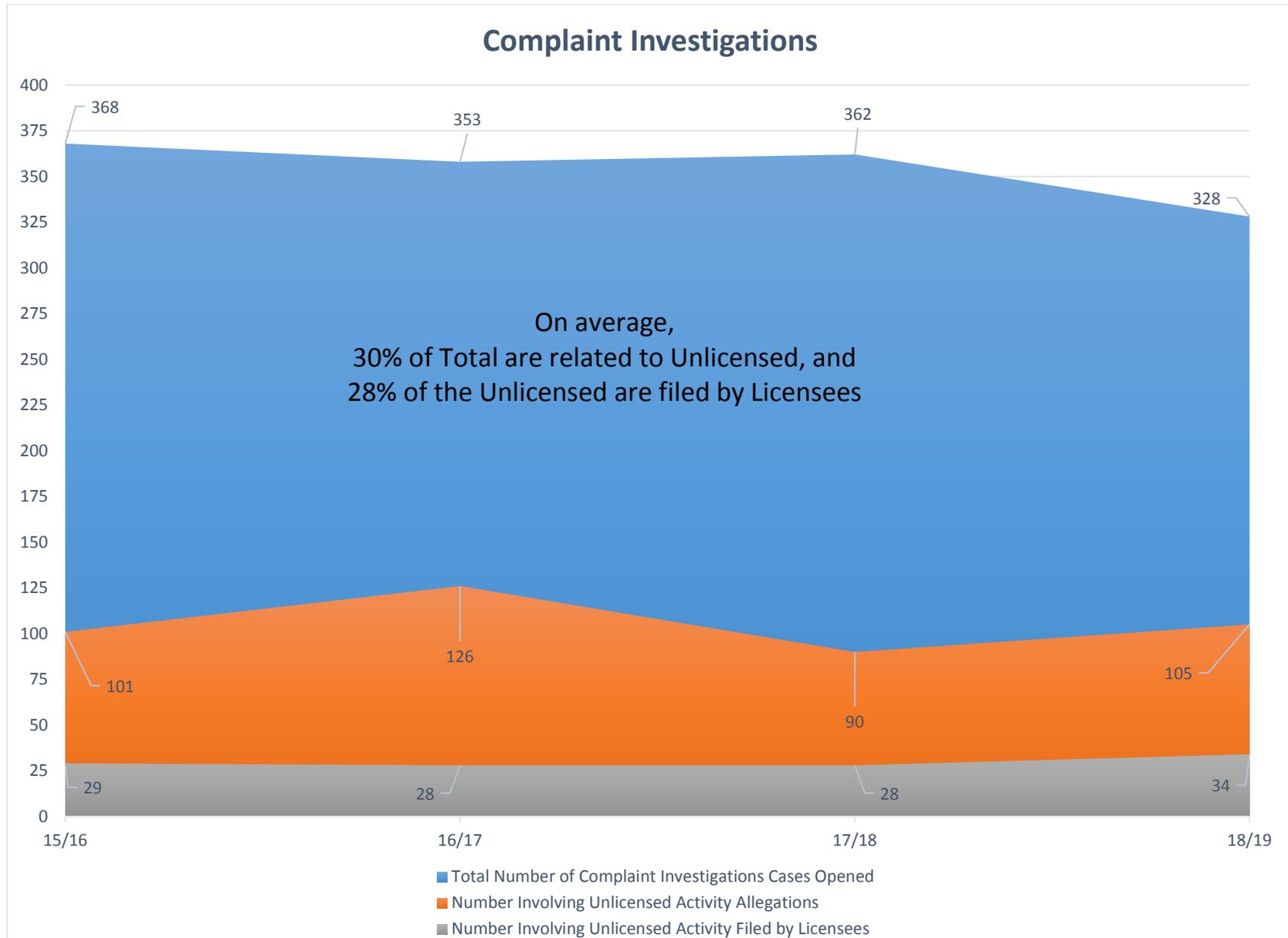
### Number of Citations Issued for Unlicensed Activity Dismissed Following Appeal (Informal Conference or Formal Appeal Hearing) Based on Act(s) Involved

Fiscal Year	PE Act	G&G Act	PLS Act
15/16	1	1	3
16/17	2	1	6
17/18	0 (2 not yet final)	0	2
18/19	0 (2 not yet final)	3 (3 not yet final)	0

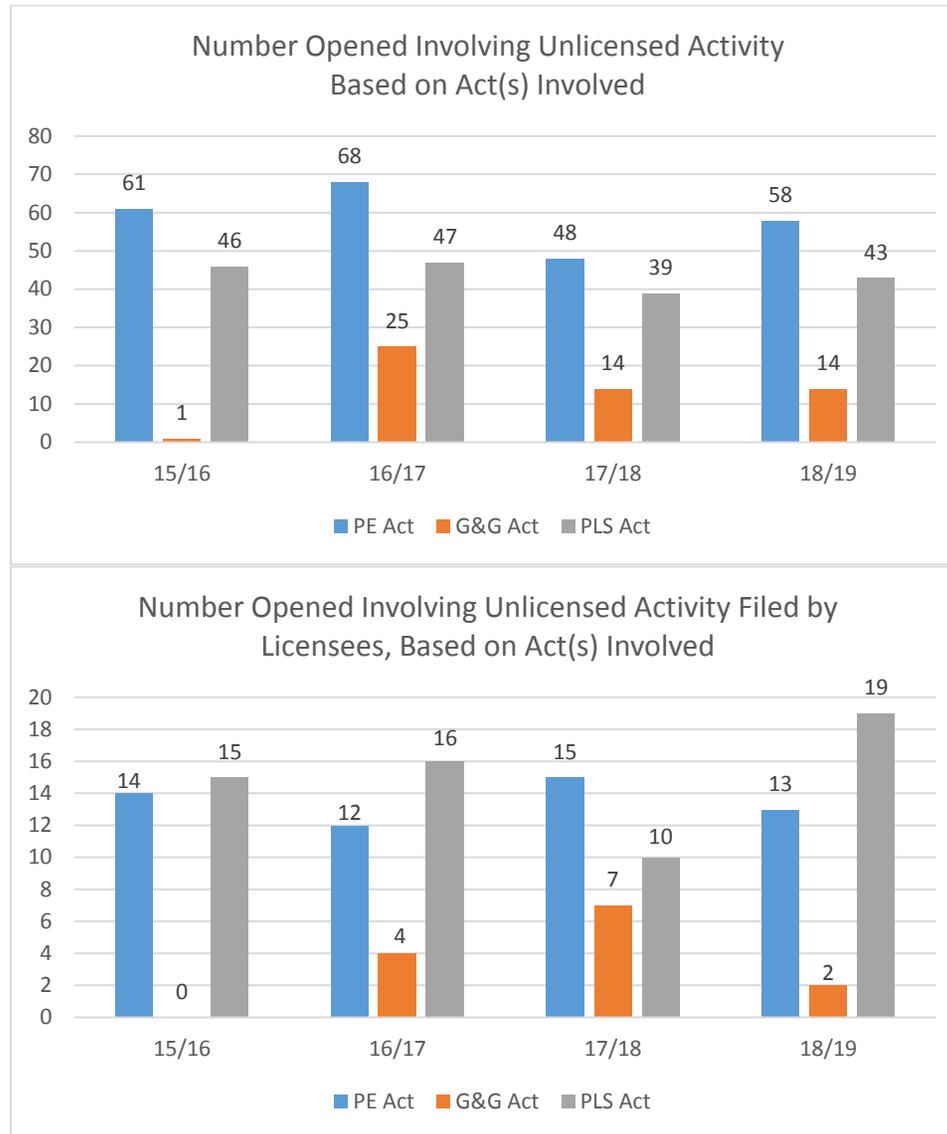
“Not yet final” indicates the citation is still under appeal.

Citations may involve violations of multiple acts (e.g., unlicensed person offering both engineering and land surveying) and so would be counted under multiple acts (e.g., both PE Act and PLS Act for violations).

## UNLICENSED ACTIVITY RESEARCH – ENFORCEMENT STATISTICS

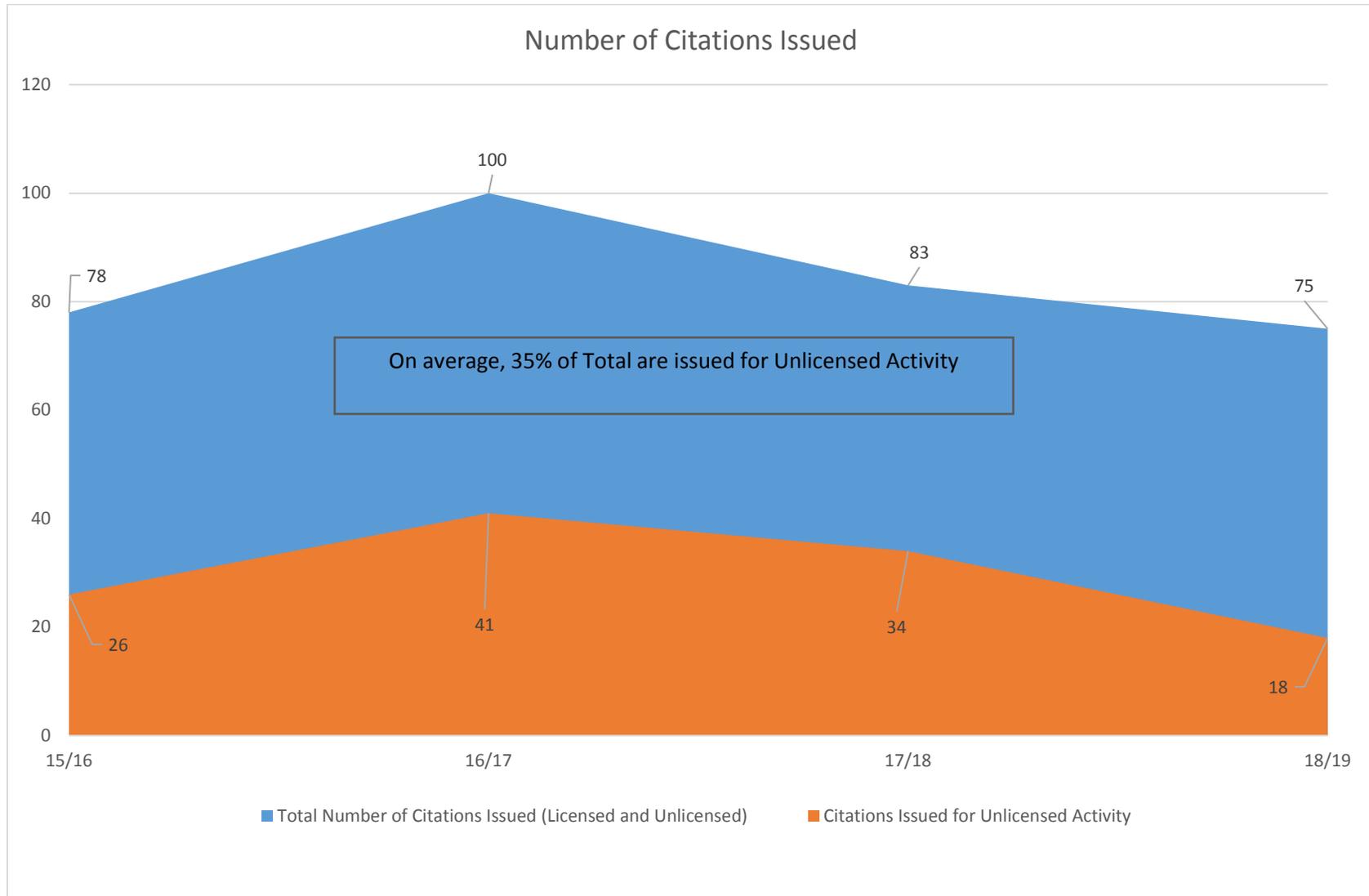


## UNLICENSED ACTIVITY RESEARCH – ENFORCEMENT STATISTICS

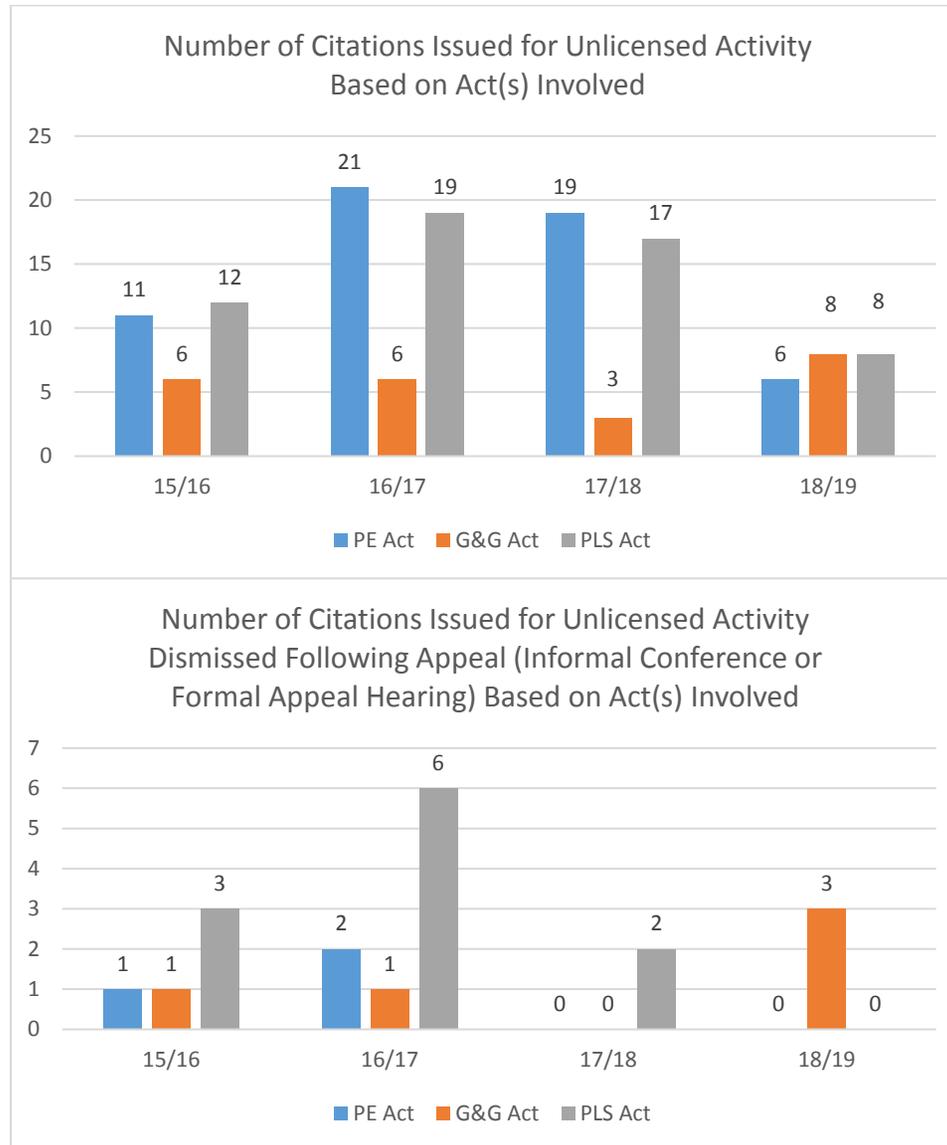


May add up to more than the number opened since cases may involve allegations of violations of more than one act (e.g., unlicensed person offering both engineering and land surveying would be counted as one case for number opened but under both PE Act and PLS Act for violations).

## UNLICENSED ACTIVITY RESEARCH – ENFORCEMENT STATISTICS



## UNLICENSED ACTIVITY RESEARCH – ENFORCEMENT STATISTICS



Citations may involve violations of multiple acts (e.g., unlicensed person offering both engineering and land surveying) and so would be counted under multiple acts (e.g., both PE Act and PLS Act for violations).

**IX. National Transportation Safety Board (NTSB) Letter to Governor Related to Professional Engineer Exemption and Gas Pipelines**

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Request for Input from Business, Consumer Services and Housing Agency (Possible Action)



## **NTSB Letter to Governor Related to Professional Engineer Exemption and Gas Pipelines**

The Board was included in correspondence between the National Transportation Safety Board (NTSB) and the Governor's Office related to NTSB's September 24, 2019 report on [Overpressurization of Natural Gas Distribution System, Explosions, and Fires in Merrimack Valley, Massachusetts, September 13, 2018, NTSB/PAR-19/02.](#)

NTSB identified California as being one of 31 states that allow exemptions to professional engineer approval and stamping for natural gas infrastructure projects and has asked California to:

- Remove the exemption so that all future natural gas infrastructure projects require licensed professional engineer approval and stamping. (P-19-16) (See section 3.4.)

NTSB has requested a response from the Governor's Office within 90 days and Business, Consumer Services, & Housing Agency (Agency) asked for the Board's recommendation(s) related to the above referenced NTSB request that can be passed on to the Governor for consideration.

NTSB's letter is attached along with the link to the entire report hosted on-line by NTSB. References related to the request in NTSB's report are primarily found in, but may not be limited to:

- Section 1.9 (Pages 29-31) – Professional Engineer Review and Approval
- Section 2.1 (Page 33) – Commonwealth of Massachusetts subsequent legislative action
- Section 3.4 (Pages 43-44) – Professional Engineer Review and Approval
- Section 4.1 (Pages 48-49) – Conclusions and Findings
- Section 4.2 (Page 49) – Probable Cause
- Section 5.1 (Page 50) – New Recommendations

### **Staff Recommendation:**

Section 6747 in the Board's Professional Engineers Act is the primary section related to this request, (Sections 6739-6747 are related to professional engineer licensure exemptions) and is provided below for reference:

#### **6747.**

(a) This chapter, except for those provisions that apply to civil engineers and civil engineering, shall not apply to the performance of engineering work by a manufacturing, mining, public utility, research and development, or other industrial corporation, or by employees of that corporation, provided that work is in connection with, or incidental to, the products, systems, or services of that corporation or its affiliates.

(b) For purposes of this section, "employees" also includes consultants, temporary employees, contract employees, and those persons hired pursuant to third-party contracts.

**Staff Recommendation (cont.):**

It is important for the Board to remember in their discussion and subsequent guidance to the Governor's Office that many of the other state engineering licensing boards across the country issue engineering licenses as a general 'Professional Engineer' or 'P.E.' license expecting the individuals to self-regulate their practice within their own chosen area of expertise, while California is one of an approximate dozen boards that issue licenses by branch of engineering discipline (i.e., civil, mechanical, electrical, etc.).

The aforementioned Section 6747 specifically excepts 'civil engineering and licensed civil engineers' from the current language, but it is likely that engineering aspects associated with NTSB's concerns related to this matter involve electrical and mechanical engineering as well.

Staff recommends that the Board consider all aspects of this matter as it relates to the Board's Mission and Vision statements and provide key thoughts and considerations such that Staff can include in a letter to the Governor, signed by the Board President.



Office of the Chairman

## National Transportation Safety Board

Washington, DC 20594

October 24, 2019

The Honorable Gavin Newsom  
Governor of California  
1303 10th St.  
Suite 1173  
Sacramento, CA 95814-4910

Dear Governor Newsom:

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant accidents in other modes of transportation—railroad, highway, marine, and pipeline. We determine the probable cause of the accidents and issue safety recommendations aimed at preventing future accidents. In addition, we carry out special studies concerning transportation safety and coordinate the resources of the federal government and other organizations to assist victims and their family members affected by major transportation disasters.

We are providing the following information to urge the State of California to act on the safety recommendation in this letter because we believe your organization can help reduce the risk of future accidents. For more information about the NTSB and our recommendation process, please see the attached one-page summary.

This letter provides information about our September 24, 2019, report *Overpressurization of Natural Gas Distribution System, Explosions, and Fires in Merrimack Valley, Massachusetts, September 13, 2018*, NTSB/PAR-19/02. The details of this accident investigation and the resulting safety recommendations may be found in the attached report, which can also be accessed at <http://www.nts.gov>.

As a result of this investigation, we identified the following safety issues:

- Adequacy of natural gas regulations
- Project documentation
- Constructability review
- Project management
- Risk assessment
- Safety management systems

- Licensed professional engineer approval of natural gas projects
- Emergency response

Accordingly, the NTSB makes the following safety recommendation to the 31 states that allow exemptions to professional engineer approval and stamping for natural gas infrastructure projects, including the State of California. Additional information regarding this recommendation can be found in the noted section of the report.

- Remove the exemption so that all future natural gas infrastructure projects require licensed professional engineer approval and stamping. (P-19-16) (See section 3.4.)

The NTSB is vitally interested in this recommendation because it is designed to prevent accidents and save lives. We would appreciate a response within 90 days of the date of this letter, detailing the actions you have taken or intend to take to implement this recommendation. When replying, please refer to the safety recommendation by number (for example, P-19-16). We encourage you to submit your response to [ExecutiveSecretariat@ntsb.gov](mailto:ExecutiveSecretariat@ntsb.gov). If your reply, including attachments, exceeds 20 megabytes, please e-mail us at the same address for instructions on how to send larger documents. Please do not submit both an electronic copy and a hard copy of the same response.

Sincerely,

A handwritten signature in blue ink that reads "Robert L. Sumwalt, III". The signature is written in a cursive style with a horizontal line under the name.

Robert L. Sumwalt, III  
Chairman

**X. Review of Professional Land Surveyors' Act and Board Rules related to the Preparation and Submittal of Record of Survey and Corner Record Requirements**  

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Staff Report and Recommendations (Possible Action)



At the September 6, 2018 Board meeting, staff was authorized to commence a review of the Professional Land Surveyors’ Act (PLS Act) and Board Rules related to the requirements for the preparation and submittal of Records of Survey and Corner Records. We proceeded to facilitate six workshops throughout the state intending to cover a good cross-section of public and private land surveyors, at the following locations:

Riverside 12/12/2018 ~40 attended	Sacramento 2/22/2019 ~70 attended
Burbank 4/12/2019 ~60 attended	San Diego 4/17/2019 ~60 attended
Turlock 4/26/2019 ~35 attended	Santa Rosa 8/9/2019 ~60 attended

In preparation of each workshop, we asked California Land Surveyors Association (CLSA), County Engineers Association of California (CEAC) and County Surveyors to share a link via e-mail for an online survey we had prepared. The link for the online survey was also on our web page with the announcement for the workshops. For each workshop we created a different link for the online survey so we could track each workshops responses separately. The questions are included below:

**Question 1:**

Within the PLS Act, section 8764 defines the technical requirements for the preparation of and submittal of a Record of Survey. What subsections do you feel cause the most issues for you when preparing/submitting a Record of Survey and should be the priority for the Board to clarify?

Priority	(a)	(b)	(c)	(d)	(e)	(f)	(g)
High	<b>86</b>	54	34	<b>102</b>	23	32	<b>95</b>
Medium	24	40	48	44	52	42	58
Low	31	44	43	25	49	39	24
No change	80	<b>79</b>	<b>90</b>	60	<b>87</b>	<b>96</b>	51

Each respondent was allowed to answer once for each column. The letters reference each subsection under 8764.

**Question 2:**

PLS Act section 8764(d) states: *The relationship to those portions of adjacent tracts, streets, or senior conveyances which have common lines with the survey.*

How do you normally satisfy this requirement? Choose the answer that best describes your response.

<u>Answer Choices</u>	<u>Responses</u>	
Provide deeds of the adjacent properties	14.34%	35
Show found monuments of adjacent parcels	9.84%	24
Show record bearings and distances of adjacent parcels	6.15%	15
Depict adjacent ownership information (deed reference, ownership, etc.) on map	24.18%	59
Measured survey ties to adjacent / nearby surveys	11.89%	29
All the above	<b>33.61%</b>	<b>82</b>

**Question 3:**

*PLS Act section 8764 (g) states: Any other data necessary for the intelligent interpretation of the various items and locations of the points, lines, and areas shown, or convenient for the identification of the survey or surveyor, as may be determined by the civil engineer or land surveyor preparing the record of survey.*

How do you normally satisfy this requirement? Choose the answer that best describes your response.

<u>Answer Choices</u>	<u>Responses</u>	
Narrative of the Survey	30.74%	75
Show all found monuments	25.82%	63
Title block & vicinity map	2.87%	7
Detailed monument / corner establishment description	<b>40.57%</b>	<b>99</b>

**Question 4:**

*PLS Act section 8766 states: (a) Within 20 working days after receiving the record of survey, or within the additional time as may be mutually agreed upon by the land surveyor or civil engineer and the county surveyor, the county surveyor shall examine it with respect to all of the following:(1) Its accuracy of mathematical data and substantial compliance with the information required by Section 8764.*

How do you normally satisfy this requirement? Choose the answer that best describes your response

<u>Answer Choices</u>	<u>Responses</u>	
Bearings and distances referenced from record information	8.20%	20
Closure calculations for surveyed parcels	<b>57.38%</b>	<b>140</b>
Measured bearings and distances of the lines surveyed	34.43%	84

**Question 5:**

PLS Act section 8771 (a) states: *Monuments set shall be sufficient in number and durability and efficiently placed so as not to be readily disturbed, to ensure, together with monuments already existing, the perpetuation or facile reestablishment of any point or line of the survey.*

How would you define "Sufficient" as used in section 8771 (a) of the PLS Act?

Choose the answer that best describes your response.

<u>Answer Choices</u>	<u>Responses</u>	
Set / recover enough monuments to determine each line, or end of each line of the survey.	<b>56.15%</b>	<b>137</b>
Enough to meet the needs of a situation or a proposed end.	39.34%	96
Set / recover nearest centerline monuments to calculate the survey.	3.69%	9
Recover block corners, do not set lot corners.	0.82%	2

The purpose of the online survey was to assist in guiding the discussion at the workshops. We used the following format at the workshop: read the question from the survey, listen to input from attendees, then read the results of the survey. At each workshop we would take notes of the attendees' comments.

Going forward, we will continue to review and analyze the information received to see if statutory or regulatory changes are needed. Additionally, we identified two key opportunities where the Board can regularly provide much-needed outreach to the practicing community:

1. Facilitate multiple annual workshops throughout the state, focused on the Record of Survey requirements and responsibilities for the submitting surveyors.
2. Facilitate multiple annual workshops throughout the state focused on the statutory responsibilities of the County Surveyor within the PLS Act for receiving, reviewing, and filing of the Record of Survey.



**XI. Technical Advisory Committees (TACs)**

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- A. Assignment of Items to TACs (Possible Action)
- B. Appointment of TAC Members (Possible Action)
- C. Reports from the TACs (Possible Action)



**XII. President's Report/Board Member Activities**

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**XIII. Approval of Meeting Minutes (Possible Action)**

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A. Approval of the Minutes of the September 26, 2019, Board Meeting



**DRAFT**

**MINUTES OF THE BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS**

CalTrans District 11  
4050 Taylor Street, Gallegos Room #134  
San Diego, CA 92110

September 26, 2019

<b>Board Members Present:</b>	Fel Amistad, President; Steve Wilson, Vice President; Natalie Alavi; Alireza Asgari; Duane Friel; Andrew Hamilton; Eric Johnson; Asha Lang; Betsy Mathieson; Mohammad Qureshi; Frank Ruffino; and Robert Stockton
<b>Board Members Absent:</b>	Kathy Jones Irish and Coby King
<b>Board Staff Present:</b>	Ric Moore (Executive Officer); Nancy Eissler (Assistant Executive Officer); Tiffany Criswell (Enforcement Manager); Jeff Alameida (Administration Manager); Celina Calderone (Board Liaison); Mike Donelson (Senior Registrar); Natalie King (Senior Registrar); and Reza Pejuhesh (Legal Counsel)

**I. Roll Call to Establish a Quorum**

President Amistad called the meeting to order at 9:00 a.m., and a quorum was established.

**II. Pledge of Allegiance**

Ms. Lang led everyone in the recitation of the Pledge of Allegiance.

**III. Public Comment for Items Not on the Agenda**

Libi Uremovic, accounting auditor, expressed her frustration with engineers taking government positions, forging documents, and embezzling public funds in the City of Beaumont. The engineer along with the city attorney, finance director, and public works director were indicted. Ms. Uremovic claims she submitted a complaint with the Board and is disappointed in the Board's refusal to do anything about it. She will turn in all the documents in again.

A Professional Land Surveyor reported that he discovered that in 2009-2012, several people had received citations for not filing a record of survey when the local county surveyor was satisfied with the corner record document that was submitted and did not see anything that would require a record of survey. Because of this, a complaint was filed, and they received a citation. During the hearings they asked if the county surveyor was contacted and the answer was no. He questioned whether there was a rule in place or guideline to address what should be done when a local county surveyor feels there is no need for a record of survey, and

then a citation is issued because one was not filed. President Amistad advised the speaker to put his questions in writing to Mr. Moore.

#### **IV. Request from Professional Engineers in California Government (PECG) that the Board Remove its Opposition to the Creation of Title Act Licenses**

Ted Toppin, representing PECG, asked the Board to remove its opposition to the creation of new Title Act licenses and support the creation of a new Title Act license for environmental engineers. There are approximately nine universities in the state of California that provide environmental engineering degrees. The discipline is to apply environmental engineering principles to remediating and removing toxins from the air, water, and soil. Environmental engineering is key to addressing intense weather events and is vital to solving these problems. Regulating it would provide an important component to achieving the Board's mission. PECG's position is that a Title Act license is better than no regulation at all. A Title Act license would allow the Board to assess educational backgrounds, work done in the environmental engineering field, and provide an exam. By taking those steps, consumers would have a good baseline of understanding of the skills for people planning on becoming environmental engineers. There is currently no benchmark for establishing environmental engineering credentials. He further reported that a Title Act license would protect consumers and give students a path to environmental engineering. He is asking the Board to reconsider and give consumers of environmental engineering more protection.

Ms. Alavi noted that many aspects of environmental engineering fall under other disciplines.

Mr. Ruffino inquired as to why the Board would not want to regulate the practice and provide some oversight. He suggested establishing standards. The Board has other Title Act disciplines already. He questioned whether the Board was saying they do not mean anything. Consumers are aware that Title Act engineers have demonstrated a certain level of education and competency. He believes the Board should explore the concept further.

Mr. Stockton stated that, in the state of California, environmental engineering is a subset of other disciplines, and he does not see a need to create a separate Title Act license for environmental engineering as it is covered extensively by the Practice Act disciplines. The Board has the ability to regulate that aspect of the profession.

Mr. Toppin noted that all Title Act disciplines have some crossover with Practice Act disciplines.

Ryan Michael Atencio works for the California Air Resources Board. He holds a degree in environmental engineering and provided his personal testimony. He

requested that the Board consider a pathway for licensure for environmental engineers and remove the opposition.

Dr. Asgari inquired about how restricting the use of the title would change the way people currently practice since an environmental engineering license is not currently needed to do so.

Mr. Atencio indicated that college graduates do not know that there is not a pathway to obtain licensure.

Mr. Toppin added that if there was an environment engineer Title Act license, consumers could verify if a licensee had an environmental engineering degree, experience in the field, and if they passed the NCEES environmental engineering examination. It would protect the consumer.

Dr. Qureshi asked why licensure is so important if the field in which one practices does not require licensure. Mr. Atencio explained that people are coming into the profession and they are going to other states for work. Dr. Qureshi clarified and asked why licensure is important to Mr. Atencio.

Mr. Atencio indicated that up and coming engineers may be the problem solvers. There are many mechanical and chemical engineers at the Air Resources Board. When the recruits come up with their mechanical and chemical degrees, they are still able to choose their pathway, and he cannot provide them with a good answer as to why they should pursue an environmental pathway.

Mr. Stockton inquired if there is a difference in pay scale once an individual is licensed. Mr. Toppin explained that, in state service, it is subject to collective bargaining. There is a provision that provides additional compensation for licensed engineers in state service. If and when there was a license for environmental engineers, it would be subject to negotiation. He clarified that this is not about pay scale but fulfilling a need.

Mr. Ruffino believes that the time has arrived to engage in conversation rather than remain opposed. He recommended that the staff should do more research about the issue of licensure for environmental engineers.

Mr. Moore reported that there are multiple engineering examinations developed and administered by NCEES. There is a PE environmental examination that began in 1993. At one time, under the PE Civil exam, there existed a water resources module and a separate environmental module. In 2008, NCEES combined the water resources and environmental modules and continues to offer it as one of the modules that candidates may choose under the PE Civil exam. The Board reviewed the test plan specifications and determined that there is a very narrow area on the PE environmental examination that was not covered in the Board's

definitions of the professional practices of civil and mechanical engineering and geology.

Ms. Eissler explained that PECG sponsored legislation to create a Title Act license for environmental engineers several years ago and the Board reviewed it and took a position at that time to oppose the legislation. In voting to oppose that legislation, the Board had confirmed its opposition to the creation of new disciplines of licensure that only regulated the use of the title without regulating the associated practice. The legislation did not pass out of both houses. Currently, there is no pending legislation on which the Board could take a position. While the Board and its staff does not usually work with other organizations until legislation is pending, in this instance PECG has asked the Board to change its general policy position of opposing the creation of new Title Act licenses. With this request, it was deemed necessary to bring it to the Board to see if the Board wanted to change the position.

She explained that the reason the Board still issues Title Act licenses even though the position of the Board is that they do not protect the public is because the law dictates that the Board must still issue licenses in those disciplines. In the past, when the Board has tried to change the law to make some of the Title Act disciplines into Practice Acts, to eliminate some, or to change to a more generic form of licensure, the Board's legislation has been opposed by many professional groups including PECG. Over the years, the Board has tried to do something about the Title Acts as it has been the Board's position that they do not provide sufficient public protection.

Sutipa Bergquist is a PECG member and employed by the State Water Resource Control Board, Division of Drinking Water. She is part of CalEPA that engages in the field of infrastructure engineering including environmental. She is in support of the creation of a Title Act license.

PECG member Alan Escarda, Civil Engineer, acquired an environmental degree 30 years ago but ended up not using it due to the change in politics. He encourages the Board to support the environmental engineering Title Act license and is looking forward to building a relationship with the Board. He suggested that the Board could hold off on taking a vote on this issue and work with PECG. He felt devalued after graduation because there was not an environmental engineering path.

Mr. Johnson asked if there is a plan to introduce legislation. Mr. Toppin indicated that the PECG Board of Directors has not directed that be done at this time .

Roy Flores is a Civil Engineer who works for Caltrans and is a former president of PECG. When the concept of environmental engineering licensure was first proposed, there was strong opposition because they felt that environmental engineers would take work away from civil engineers. He believes it is time to include them and not oppose the creation of a Title Act license for environmental engineers as it will be beneficial for the public and state.

Carl Josephson reported that the last comprehensive study that was made of the title acts was completed in 2002/2003 by the Institute of Social Research. They came to the conclusion that Title Act licenses were not protecting the public and they made the recommendation to do away with Title Act licenses. Due to political reasons, it could not be done. Quality, safety, and corrosion were the only Title Act licenses that were done away with because they were specific to California. This issue has been a thorn in the side of the Board for many years and is a bigger problem that needs to be resolved.

Dr. Qureshi indicated that nothing said today has changed why he is opposed. He understands that while he holds a Title Act license, he is aware of what value it does not have and he did not hear a convincing argument from PEGC. He acquired his Traffic Engineer license first but was unable to do all the job duties because many of them were civil engineering. While he could say he was a Professional Engineer and Traffic Engineer prior to obtaining his license as a Civil Engineer, there is not much value in his Traffic Engineer license. What he has discovered since he has been on the Board and with how the two fields overlap, much of what he did he could not do as a traffic engineer because it overlapped with civil engineering. As far as public protection, people can still do the work even if the Board revokes the Title Act license for incompetence. He would ask from PEGC that if they are coming before the Board expressing the need for licensure, they need to tell the Board why. The arguments he has heard do not explain why a Title Act license for environmental engineers is needed. He understands licensure is a requirement for certain positions and it affects a person's career path. If that is the motivating factor, PEGC should be honest about it. The argument for licensure needs to be more convincing as to why it is needed. If the issue is how the performance of the work is regulated, then it should be a Practice Act license. Since the practice would not be regulated, he does not see value in it. He doubts a homeowner would be hiring an environmental engineer; it would most likely be agencies and firms. The presentation of the argument as to why licensure is needed should be stronger.

Mr. Stockton does not think it is an appropriate time to have staff study and research given the workload.

Ms. Alavi noted that she only hears that it is better than nothing. There is no discussion on regulation or public protection, so she questions the motivation.

Ms. Lang would like to know if PEGC has considered proposing a Practice Act license, rather than a Title Act license.

Mr. Ruffino respectfully disagrees with Dr. Qureshi. While not hearing compelling and convincing arguments, he has heard enough that he believes that having something is better than nothing. It would be worthwhile for the Board to entertain the idea and seek input from the profession to better justify why.

Mr. Toppin thanked the Board for engaging in the conversation as it is worthy. Remediating toxins in the air, soil, and water with engineering principles is a distinct field. PECG is not being disingenuous in the letter. The reference in the letter is to the people at the Water Board, Air Resources Board, and the Department of Water Resources who are engaging in and remediating toxins in air, land, and soil for the purposes of protecting the public. They are not practicing engineering but are using engineering principles. He is asking for consideration in providing them a path for licensure. Their work experience does not qualify them to take the civil, mechanical, or electrical engineering examinations, and they do not want to be pigeonholed into one of the Practice Act disciplines.

Dr. Asgari asked Mr. Pejuhesh if it would be considered a conflict for him to vote on any motions since he works for the State of California in an engineering position that is covered by the PECG bargaining unit agreement. Mr. Pejuhesh advised that there would likely not be a conflict if the request from PECG would not affect Dr. Asgari personally. Dr. Asgari indicated that it would not.

<b>MOTION:</b>	Mr. Stockton and Ms. Mathieson moved to reconfirm the Board's opposition to the creation of new license categories in which only the use of the title is restricted and the associated practice is not regulated.
<b>VOTE:</b>	7-3-2, Motion Carried

Member Name	Yes	No	Abstain	Absent	Recusal
Fel Amistad			X		
Steve Wilson	X				
Natalie Alavi	X				
Alireza Asgari		X			
Duane Friel		X			
Andrew Hamilton	X				
Kathy Jones Irish				X	
Eric Johnson	X				
Coby King				X	
Asha Lang	X				
Betsy Mathieson	X				
Mohammad Qureshi			X		
Frank Ruffino		X			
Robert Stockton	X				

**V. Administration**

- A. Fiscal Year 2017/18 Budget Status
- B. Fiscal Year 2018/19 Budget Report
- C. Fiscal Year 2019/20 Budget Report

Mr. Alameida, Administrative Services Manager, reported on the above topics. He received additional information from DCA for 2017/18 and 2018/19 and updated

projections for 2018/19 as a result from the updated information. DCA continues to deal with constraints with the FI\$Cal system. Mr. Moore, Ms. Eissler, and Mr. Alameida met with the Budget office to capture any updated information to provide to the Board and also an update in terms of where the Board is going to close out 2017/18 and 2018/19 and then current statements for 2019/20. The Budget office has indicated that they are attempting with FI\$Cal to close out 2017/18 by October or November. They would like to close out 2018/19 in December and would like to be current for 2019/20 financial reports by February of 2020.

Mr. Alameida reviewed the Financial Statement. He noted that the table he presented in the meeting materials is broken out by specific line items and based on the budget allocation for Fiscal Month 1 Projections going forward to the end of the year. He is moving towards a simpler display that would still provide all the information that the Board has come to expect in terms of where the impact levels are within the budget and their associated line items.

## **VI. Legislation**

### **A. 2019 Legislative Calendar**

Ms. Eissler reported that the legislative session ended September 13, and the Governor has until October 13 to act on bills.

### **B. Discussion of Legislation for 2019**

**AB 1522 Board for Professional Engineers, Land Surveyors, and Geologists**  
This bill passed unanimously through both the Senate and the Assembly. It was presented to the Governor on September 25, and a letter of support from the Board has been sent to the Governor's office.

**SB 53 Open meetings**  
This bill would have amended the Bagley-Keene Open Meeting Act regarding what constitutes a state body. The Board, along with other DCA boards and DCA itself, opposed it because they felt the wording was confusing and it would create additional costs for the boards. The estimate from DCA and its constituent boards was that there would be an \$850,000 annual cost. The bill was held in the Assembly Appropriations Committee by the deadline. Because this was the first year in a two-year legislative session, the bill could be brought up again in January.

## **II. Enforcement**

### **A. Enforcement Statistical Reports**

#### **1. Fiscal Year 2018/19 Update**

David Hausfeld, the Board's Liaison Deputy Attorney General, announced his retirement from state service. Ms. Criswell introduced Amie Flynn who will be his replacement.

Ms. Criswell reviewed the Enforcement stats. Mr. Stockton noted a jump in aging of completed cases through 2019/20. Ms. Criswell explained that it is early in the fiscal year and she expects that it will change as there are only two months reflected in the statistics.

### **III. Exams/Licensing**

No report given.

### **IV. Caltrans Director Presentation – update on Caltrans projects**

Mario Orso, Corridor Director of District 11, provided a presentation on the Otay Mesa East Port of Entry (POE) project.

### **V. Executive Officer's Report**

#### **A. Rulemaking Status Report**

Mr. Alameida reported that the Office of Administrative Law (OAL) approved the Geology Education rulemaking file on July 11, 2019, and the regulatory action will become effective October 1, 2019.

The Fees and Certificates rulemaking package is now at Agency as of September 19, 2019, and is still in the pre-notice review process prior to the Board being able to notice it for the 45-day comment period.

#### **B. Update on Board's Business Modernization/PAL Process**

Mr. Moore reported that the solicitations are out, and DCA is hopeful they will have proposals from various vendors. He suspects most of October will spent reviewing the proposals and negotiating by November.

#### **C. Personnel**

Mr. Moore reported that Jen Mueller, Enforcement Analyst, has left employment with the Board; Kara Williams, Budget Analyst, accepted a position at another DCA entity; and Nina Natha was hired as the new Board's receptionist.

#### **D. ABET**

Natalie King, Senior Civil Engineer Registrar with the Board, reported that she attended an ABET visit for the first time. She discovered it was much more than curriculum and courses, but more about the institution and the support of the different programs and what the students do with the information once they leave. She found it very interesting and looks forward to doing it again.

#### **E. Association of State Boards of Geology (ASBOG)**

##### **1. Fall 2019 Meeting**

Mr. Moore announced the ASBOG Annual Meeting will take place November 5-9, 2019, in Minneapolis, MN. He is planning on attending the Board Administrators meeting on November 5. Ms. Mathieson and Laurie

Racca, the Board's Senior Geologist Registrar, will also be in attendance for the Annual Meeting. There will be discussion on computer based testing (CBT). David Cox, NCEES CEO, will be doing a presentation on CBT. Mr. Moore will provide a report at the November meeting.

F. National Council of Examiners for Engineering and Surveying (NCEES)

1. Report on the 2019 Annual Meeting

Mr. Moore reported that at the August Annual Meeting, Christopher Knotts, who was the Southern Zone Vice President, was elected as 2019-2020 NCEES President-Elect.

Mr. Moore reported that the Advisory Committee on Council Activities (ACCA) Motion 2 which would have prohibited proxy voting, passed. The Board was in support of this motion.

Mr. Moore also reported on Education Committee Motion 1 related to requiring an additional layer of evaluation in addition to ABET accreditation for engineering technology degrees. The Board's position was for its to vote consistently with California laws which did not require any additional evaluation above and beyond ABET accreditation. There was much discussion on the issue, with various alternative and amended motions proposed. Ultimately, the motion failed because it was a 50/50 vote.

Mr. Moore advised that Surveying Module Task Force Motion 1 related to restructuring of the Professional Surveying examination passed. The Board had supported this motion.

Mr. Moore advised that the Alabama Board presented a floor motion that proposed changes to various examination fees. Following the discussion, they withdrew the motion because NCEES already has a plan in place to review and revise the fees once all of the examinations have converted to CBT.

Mr. Moore indicated that that South Carolina Board presented a floor motion proposing changes to the bylaws related to NCEES education standards that would require any changes to that standard to be approved by a vote of the Council at the Annual Meeting. The motion to refer the matter to the Bylaws Committee passed.

Dr. Asgari announced he was appointed to serve as a member of the NCEES Outreach Task Force. Mr. Stockton indicated he is on the NCEES Finance Committee. Dr. Qureshi advised he is on the Examinations for Professional Engineers (EPE) Committee.

Mr. Moore stated that he is a consultant to the Examinations for Professional Surveyors (EPS) Committee.

G. Update on Outreach Efforts

Mr. Moore reported that the Board's outreach coordinator is researching how the Board can join LinkedIn.

H. Request from Staff for Direction from the Board Regarding Unlicensed Activity Enforcement Discussion Item

Mr. Moore provided background information regarding this item. During discussion at the June 2019 meeting, the Board tasked staff to begin research on certificate or registration requirements for businesses related to all the Board regulated professions, including how similar boards in other states are handling the issue of certifying businesses and unlicensed activities. Ms. Eissler recommended that an item be placed on a future meeting agenda so the Board would be able to fully discuss what information the Board would like staff to research. At the August Board meeting, the Board expressed its concerns related to business certification being a remedy to unlicensed activity.

Mr. Moore indicated that staff needs clear guidance from the Board on what exactly the Board would like staff to research.

Mr. Stockton indicated that he would like information on whether or not other states require Certificates of Authorization and if it is effective in terms of dealing with unlicensed activity.

Ms. Mathieson reported that a surveyor who spoke during public comment at the last meeting indicated that he was aware of rampant unlicensed practice among contractors, and, although he did not want to disclose any names at the time, he would provide a summary letter and database regarding his own research. She asked if the information had been received. Mr. Moore advised that no information had been received yet.

Mr. Wilson is interested to know if the Board cites someone for unlicensed activity and they are licensed by another board, if there a method to compel the other board to hold that person's renewal until the fine is paid or to take other action. He believes there should be a method in place for the boards to work together in this manner but acknowledged that legislation may be needed to accomplish it.

Mr. Johnson agrees with Mr. Wilson and would like to discuss the possibility of working with other boards.

Mr. Wilson questioned if the laws regarding Organization Records should be strengthened. Mr. Moore reported that the Enforcement Unit receives Organization Records inquiries daily. If there is an Organization Record available, it is sent to them. If not, the company is then contacted and asked to provide one or provide an explanation as to why they believe they do not need to file one. If they do not respond or comply, then a complaint investigation case

is opened. Ms. Criswell indicated that many unlicensed activity citations start this way.

Mr. Stockton asked if it would be possible to provide statistical data regarding citations issued for unlicensed activity. Ms. Eissler advised that some data is tracked relating to unlicensed activity cases and citations. Statistical information will be provided at the next meeting.

**VI. Technical Advisory Committees (TACs)**

- A. Assignment of Items to TACs  
No report given.
- B. Appointment of TAC Members  
No report given.
- C. Reports from the TACs  
No report given.

**VII. President’s Report/Board Member Activities**

President Amistad reported that he attended the meeting DCA held regarding the Executive Officer compensation study. He also attended the NCEES Annual Meeting in Washington DC. For those who have not been to an NCEES meeting, he strongly encourages everyone to attend a meeting. He will also be attending an ABET visit and a few college outreach events as well.

Ms. Mathieson is planning on participating in a discussion with the UC Davis American Institute of American Geologists. They have a series of discussions by professionals, to discuss their careers and current projects.

**VIII. Approval of Meeting Minutes**

- A. Approval of the Minutes of the August 8, 2019, Board Meeting

<b>MOTION:</b>	Mr. Wilson and Mr. Johnson moved to approve the minutes as amended.
<b>VOTE:</b>	10-0-4, Motion Carried

Member Name	Yes	No	Abstain	Absent	Recusal
Fel Amistad	X				
Steve Wilson	X				
Natalie Alavi			X		
Alireza Asgari	X				
Duane Friel	X				
Andrew Hamilton			X		
Kathy Jones Irish	X				
Eric Johnson	X				
Coby King	X				
Asha Lang			X		

Betsy Mathieson	X				
Mohammad Qureshi	X				
Frank Ruffino	X				
Robert Stockton			X		

**IX. Discussion Regarding Proposed Agenda Items for Next Board Meeting**

A. November 21-22, 2019, Board Meeting will be held in Oakland, CA at the Elihu M. Harris Building, 1515 Clay Street, Oakland, CA.

**X. Closed Session – The Board will meet in Closed Session to discuss, as needed:**

- A. Personnel Matters [Pursuant to Government Code sections 11126(a) and (b)]
  - 1. Executive Officer Performance Evaluation
- B. Examination Procedures and Results [Pursuant to Government Code section 11126(c)(1)]
- C. Administrative Adjudication [Pursuant to Government Code section 11126(c)(3)]
- D. Pending Litigation [Pursuant to Government Code section 11126(e)]

**XI. Open Session to Announce the Results of Closed Session**

During Closed Session the Board took action on two stipulations and discussed personnel matters as noticed.

**XII. Adjourn**

The meeting adjourned at 4:18 p.m.

**PUBLIC PRESENT**

- Libi Uremovic, Beaumontgate.org
- Ted Toppin, PECCG
- Ryan Atencio
- Sutipa Bergquist, PECCG
- Alan Escarda, PECCG
- Robert Lumahan, PECCG

**XIV. 2020 Board Meeting Schedule (Possible Action)**

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# 2020 Board for Professional Engineers, Land Surveyors, and Geologists

# Board Meetings

### January 2020

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

### February 2020

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

### March 2020

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

### April 2020

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

### May 2020

S	M	T	W	T	F	S
31					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

### June 2020

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

### July 2020

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

### August 2020

S	M	T	W	T	F	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

### September 2020

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

### October 2020

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

### November 2020

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

### December 2020

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

### Holidays

1/1	New Year's
1/20	M. L. King, Jr. Day
2/17	President's Day
3/31	Cesar Chavez Day
5/25	Memorial Day
7/3	Independence Day
9/7	Labor Day
11/11	Veteran's Day
11/26-11/27	Thanksgiving Break
12/25	Christmas

### Board Meeting Dates

January 16-17
March 12-13
May 7-8
June 25-26
August 20-21
October 15-16
December 10-11

### Key

<b>BOARD MEETINGS</b>	<b>HOLIDAYS</b>
<b>NCEES FUNCTIONS</b>	<b>ASBOG FUNCTIONS</b>

- 4/8-4/11 ASBOG Spring Council of Examiners Workshop, Cheyenne, WY
- 4/23-4/25 NCEES Joint All-Zone Interim Meeting, Houston, TX
- 8/26-8/29 NCEES 100th Annual Meeting, Chicago, IL
- 11/2-11/7 ASBOG Combined Executive Committee Meeting, Madison, WI

# 2020



**XV. Discussion Regarding Proposed Agenda Items for Next Board Meeting**

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**XVI. Closed Session – The Board will meet in Closed Session to discuss, as needed:**

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- A. Personnel Matters [Pursuant to Government Code sections 11126(a) and (b)]
  - 1. Executive Officer Performance Evaluation
- B. Examination Procedures and Results [Pursuant to Government Code section 11126(c)(1)]
- C. Administrative Adjudication [Pursuant to Government Code section 11126(c)(3)]
- D. Pending Litigation [Pursuant to Government Code section 11126(e)]



**XVII. Open Session to Announce the Results of Closed Session**

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