



Honorable Members
Board of Supervisors
City and County of San Francisco
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco, California 94102

Statement of the Results
City and County of San Francisco
Consolidated Presidential Primary Election – March 3, 2020

I, John Arntz, Director of Elections, certify that I have canvassed the ballots cast in the Consolidated Presidential Election held on Tuesday, March 3, 2020, in the City and County of San Francisco (City), in the manner required by Division 15 of the California Elections Code.

I certify that I began the canvass immediately upon the close of the polls and, as a result of the tabulation of all votes recorded, present a complete record entitled "Statement of the Results of the San Francisco Consolidated Presidential Primary Election – March 3, 2020." I also certify that 305,184 voters cast ballots; therefore, 60.56% of San Francisco's 503,899 registered voters participated in this election.

In accordance with California Elections Code section 15374, I certify that this Statement of the Results provides the total number of votes cast for each candidate, and for and against each proposition. The precinct detail of all votes cast appears in the Statement of the Vote, which is posted on the Department of Elections' website at sfelections.org/results and is incorporated by reference into this Statement of the Results.

This Statement of the Results includes tables in Attachment 1 that list the total votes cast in each contest, and for and against each proposition, and are organized as follows:

A. Party-Nominated Office for President

1. American Independent Party
2. Democratic Party
3. Green Party
4. Libertarian Party
5. Peace and Freedom Party
6. Republican Party

B. Voter-Nominated Offices

1. United States Representative, District 12
2. United States Representative, District 13
3. United States Representative, District 14
4. State Senate, District 11
5. State Assembly, District 17
6. State Assembly, District 19

C. Nonpartisan Offices

1. Judge of the Superior Court, Office Number 1
2. Judge of the Superior Court, Office Number 18
3. Judge of the Superior Court, Office Number 21

D. Political Party Central Committees

1. Democratic Party Central Committee, District 17
2. Democratic Party Central Committee, District 19
3. Republican Party Central Committee, District 17

E. STATE PROPOSITION

1. Proposition 13, "Authorizes Bonds for Facility Repair, Construction, and Modernization at Public Preschools, K-12 Schools, Community Colleges, and Universities"

F. City Propositions

1. A, "City College Job Training, Repair and Earthquake Safety Measure"
2. B, "San Francisco Earthquake Safety and Emergency Response Bond, 2020"
3. C, "Retiree Health Care Benefits for Former Employees of the San Francisco Housing Authority"
4. D, "Vacancy Tax"
5. E, "Limits on Office Development"

For each results table, the candidates and ballot propositions positions that received the most votes are preceded by arrows (→).

For the March 3 election, most voters received two-card ballots according to voters' political party preferences. Voters without political party preferences received two cards when requesting ("crossover") ballots that included the presidential contest for the American Independent, Democratic, or Libertarian parties. Voters with no party preferences and who did not request ballots with presidential contests from the American Independent, Democratic, or Libertarian parties received a one-card ballot, which did not include contests for President or Central Committee.

Card 1: President, Central Committee (for voters with Democratic political party preferences registered within State Assembly Districts 17 and 19; and voters with Republican political party preferences registered within State Assembly District 17).

Card 2: United States Representative Districts 12 or 14, State Senator District 11, State Assembly Districts 17 or 19, Superior Court Judge for Seats 1, 18, and 21, State Proposition 13, and City Propositions A – E.

Although this Statement of the Results includes the contest for United States Representative, District 13, the boundary that places this district within San Francisco extends across San Francisco Bay and crosses the extreme southwest corner of Alameda Island. Other than this uninhabited corner, the district lies entirely within Alameda County. This is why the table showing results for this contest indicates 0 votes and 0% turnout.

SHA-512 Cryptographic Hash Algorithm

The Department of Elections applied a SHA-512 cryptographic function to reports associated with this election to establish the integrity of the results in a verifiable manner. Attachment 2 provides information regarding the SHA-512 hash values for all electronic files associated with the final, certified results reports.

Voting System and Election Transparency

The City's voting system that the Department implemented during the 2019 Consolidated Municipal Election allows for increased election transparency through the posting of images of voted ballots, equipment logs, and other election reports, all of which have been posted with the final election results on the Department's website, *sfelections.org*.

Voted ballot images.

The Department posted images of voted ballots cast in this election, allowing members of the public to view each voted ballot cast in the City. Prior to posting the ballot images, the Department reviewed the images and redacted identifying information that voters may have placed on ballot cards.

In addition to the new system capturing images of voted ballot cards during processing, the system also appends statements that explain how the voting equipment interpreted and tallied each vote mark. These statements, or AuditMarks, provide the public with information on how the voting system operates in relation to recording and reporting votes.

Ballot Audit and Review

The Department posted a prototype of a new application that allows the public to sort the ballot images according to precinct, contest, and district. The Department is the first county in the country to utilize this application, known as "Ballot Audit and Review." The City's voting system vendor, Dominion Voting Systems, will continue development of this application that the Department will also post on its website. Next versions of the Ballot Audit and Review application will allow the sorting of ballot images according to specific candidates and vote markings.

Cast Vote Record. The Department posted a "Cast Vote Record" that lists each vote recorded on each ballot card associated with all contests and propositions. The data provided in the Cast Vote Record is captured from the ballots as the ballots are scanned by the voting equipment and before vote tabulation occurs, allowing members of the public to tabulate votes from specific precincts, districts, etc. and compare against the official election results.

Attachments

Attachment 1 provides tables that list the votes cast in each contest and for or against each proposition.

Attachment 2 is the list of SHA-512 hashes associated with each final elections results report.

Attachment 3 is the report from the manual tallies that the Department conducted on randomly selected polling place, vote-by-mail, and provisional ballots to confirm the voting equipment operated properly, and accurately counted and reported election results.

In witness whereof, I hereby affix my hand and seal this 31st day of March in 2020.



John Arntz, Director of Elections



PARTY-NOMINATED OFFICE

I certify the results for the following **PARTY-NOMINATED OFFICE**.

PRESIDENT

(Results represent votes cast in San Francisco only)

AMERICAN INDEPENDENT PARTY

	Candidates	Vote Totals	% of Votes
→	PHIL COLLINS	343	33.66%
	ROQUE "ROCKY" DE LA FUENTE	200	19.63%
	J.R. MYERS	189	18.55%
	DON BLANKENSHIP	144	14.13%
	CHARLES KRAUT	143	14.03%
	WRITE-IN CANDIDATES	-	0.00%
	Total Votes	1,019	
	Overvotes	1	
	Undervotes	1,980	
	Total Ballots Cast	3,000	

DEMOCRATIC PARTY

	Candidates	Vote Totals	% of Votes
→	BERNIE SANDERS	89,217	34.38%
	JOSEPH R. BIDEN	62,299	24.01%
	ELIZABETH WARREN	58,730	22.63%
	MICHAEL R. BLOOMBERG	28,933	11.15%
	PETE BUTTIGIEG	10,360	3.99%
	AMY KLOBUCHAR	3,611	1.39%
	ANDREW YANG	2,822	1.09%
	TOM STEYER	1,699	0.65%
	TULSI GABBARD	971	0.37%
	JULIÁN CASTRO	150	0.06%
	MICHAEL BENNET	128	0.05%
	CORY BOOKER	119	0.05%
	MARIANNE WILLIAMSON	104	0.04%
	MARK STEWART GREENSTEIN	92	0.04%
	JOHN K. DELANEY	69	0.03%

DEMOCRATIC PARTY, PRESIDENT (Continued)

Candidates	Vote Totals	% of Votes
MICHAEL A. ELLINGER	63	0.02%
ROQUE "ROCKY" DE LA FUENTE III	54	0.02%
JOE SESTAK	38	0.01%
DEVAL PATRICK	31	0.01%
MOSIE BOYD	20	0.01%
WRITE-IN CANDIDATES		
NAKIA L. ANTHONY	0	0.00%
DAPHNE DENISE BRADFORD*	0	0.00%
WILLIE FELIX CARTER	0	0.00%
MICHAEL DENAME	0	0.00%
JEFFREY H. DROBMAN	0	0.00%
ROBERT JORDAN	0	0.00%
HEATHER MARIE STAGG	0	0.00%
Total Votes	259,510	
Overvotes	323	
Undervotes	1,531	
Total Ballots Cast	261,364	

GREEN PARTY

Candidates	Vote Totals	% of Votes
→ HOWIE HAWKINS	216	35.82%
DARIO HUNTER	158	26.20%
SEDINAM MOYOWASIFZA-CURRY	119	19.73%
DENNIS LAMBERT	88	14.59%
DAVID ROLDE	22	3.65%
WRITE-IN CANDIDATES	-	0.00%
Total Votes	603	
Overvotes	0	
Undervotes	474	
Total Ballots Cast	1,077	

LIBERTARIAN PARTY

Candidates	Vote Totals	% of Votes
→ JACOB HORNBERGER	167	24.38%
VERMIN SUPREME	81	11.82%
JO JORGENSEN	76	11.09%
KEN ARMSTRONG	58	8.47%
KIM RUFF	54	7.88%
SAM ROBB	37	5.40%
ADAM KOKESH	37	5.40%
STEVEN A RICHEY	36	5.26%
MAX ABRAMSON	34	4.96%
DAN BEHRMAN	33	4.82%
SOURAYA FAAS	31	4.53%
ERIK CHASE GERHARDT	21	3.07%
KEENAN WALLACE DUNHAM	19	2.77%
WRITE-IN CANDIDATES		
SORINNE ARDELEANU	1	0.15%
NICHOLAS D'ARTAGNAN DUMAS	0	0.00%
GEBY EVA ESPINOSA	0	0.00%
JAMES ORLANDO OGLE	0	0.00%
Total Votes	685	
Overvotes	7	
Undervotes	464	
Total Ballots Cast	1,156	

PEACE AND FREEDOM PARTY

	Candidates	Vote Totals	% of Votes
→	GLORIA LA RIVA	174	69.05%
	HOWIE HAWKINS	78	30.95%
	WRITE-IN CANDIDATES	-	0.00%
	Total Votes	252	
	Overvotes	0	
	Undervotes	114	
	Total Ballots Cast	366	

REPUBLICAN PARTY

	Candidates	Vote Totals	% of Votes
→	DONALD J. TRUMP	12,071	81.32%
	BILL WELD	1,279	8.62%
	JOE WALSH	658	4.43%
	ROQUE "ROCKY" DE LA FUENTE	322	2.17%
	MATTHEW JOHN MATERN	273	1.84%
	ROBERT ARDINI	122	0.82%
	ZOLTAN G. ISTVAN	118	0.79%
	WRITE-IN CANDIDATES		
	DENIS C. GRASSKA	0	0.00%
	ROBERT LEE MANNING JR.	0	0.00%
	Total Votes	14,843	
	Overvotes	8	
	Undervotes	1,857	
	Total Ballots Cast	16,708	

VOTER-NOMINATED OFFICES

I certify the results for the following **VOTER-NOMINATED OFFICES**.

(Unless otherwise noted, the two candidates who receive the most votes will appear on San Francisco's ballot for the November 2020 General Election).

U.S. REPRESENTATIVE, DISTRICT 12

	Candidates	Vote Totals	% of Votes
→	NANCY PELOSI	190,590	74.03%
→	SHAHID BUTTAR	33,344	12.95%
	JOHN DENNIS	19,883	7.72%
	TOM GALLAGHER	5,094	1.98%
	DEANNA LORRAINE	4,635	1.80%
	AGATHA BACELAR	3,890	1.51%
	WRITE-IN CANDIDATES	-	0.00%
	Total Votes	257,436	
	Overvotes	638	
	Undervotes	13,478	
	Total Ballots Cast	271,552	

U.S. REPRESENTATIVE, DISTRICT 13

	Candidates	Vote Totals	% of Votes
	BARBARA LEE	0	0.00%
	NIKKA PITERMAN	0	0.00%
	WRITE-IN CANDIDATES	0	0.00%
	Total Votes	0	
	Overvotes	0	
	Undervotes	0	
	Total Ballots Cast	0	

U.S. REPRESENTATIVE, DISTRICT 14

(Results represent votes cast in San Francisco only since the district boundary includes San Mateo County)

	Candidates	Vote Totals	% of Votes
→	JACKIE SPEIER	23,790	78.64%
	RAN S. PETEL	4,133	13.66%
	CRISTOS GOODROW	1,314	4.34%
	ERIC TAYLOR	1,013	3.35%
	WRITE-IN CANDIDATES	-	0.00%
	Total Votes	30,250	
	Overvotes	67	
	Undervotes	3,071	
	Total Ballots Cast	33,388	

STATE SENATE, DISTRICT 11

	Candidates	Vote Totals	% of Votes
→	SCOTT WIENER	154,001	55.91%
→	JACKIE FIELDER	92,141	33.45%
	ERIN SMITH	29,285	10.63%
	WRITE-IN CANDIDATES	-	0.00%
	Total Votes	275,427	
	Overvotes	245	
	Undervotes	29,268	
	Total Ballots Cast	304,940	

STATE ASSEMBLY, DISTRICT 17

	Candidates	Vote Totals	% of Votes
→	DAVID CHIU	120,498	99.95%
	WRITE-IN CANDIDATE		
→	STARCHILD	56	0.05%
	Total Votes	120,554	
	Overvotes	0	
	Undervotes	56,249	
	Total Ballots Cast	176,803	

STATE ASSEMBLY, DISTRICT 19

(Results represent votes cast in San Francisco only since the district boundary includes San Mateo County)

	Candidates	Vote Totals	% of Votes
→	PHIL TING	90,788	82.10%
	JOHN P. MCDONNELL	19,796	17.90%
	WRITE-IN CANDIDATES	-	0.00%
	Total Votes	110,584	
	Overvotes	20	
	Undervotes	17,533	
	Total Ballots Cast	128,137	

NONPARTISAN OFFICES

I certify the results for the following **NONPARTISAN ELECTIVE OFFICE**.

JUDGE OF THE SUPERIOR COURT, OFFICE NO. 1

Candidates	Vote Totals	% of Votes
→ MARIA ELENA EVANGELISTA	159,502	64.89%
PANG LY	86,292	35.11%
WRITE-IN CANDIDATES	-	0.00%
Total Votes	245,794	
Overvotes	153	
Undervotes	58,993	
Total Ballots Cast	304,940	

JUDGE OF THE SUPERIOR COURT, OFFICE NO. 18

Candidates	Vote Totals	% of Votes
→ MICHELLE TONG	137,702	57.05%
DOROTHY CHOU PROUDFOOT	103,664	42.95%
WRITE-IN CANDIDATES	-	0.00%
Total Votes	241,366	
Overvotes	268	
Undervotes	63,306	
Total Ballots Cast	304,940	

JUDGE OF THE SUPERIOR COURT, OFFICE NO. 21

Candidates	Vote Totals	% of Votes
→ CAROLYN GOLD	121,026	50.42%
KULVINDAR "RANI" SINGH	119,011	49.58%
WRITE-IN CANDIDATES	-	0.00%
Total Votes	240,037	
Overvotes	123	
Undervotes	64,780	
Total Ballots Cast	304,940	

POLITICAL PARTIES: CENTRAL COMMITTEES

I certify the results for the following **POLITICAL PARTY CENTRAL COMMITTEE SEATS**

DEMOCRATIC PARTY COUNTY CENTRAL COMMITTEE, DISTRICT 17

14 seats available for this district

	Candidates	Vote Totals	% of Votes
→	JANE KIM	48,958	5.57%
→	DAVID CAMPOS	45,619	5.19%
→	JOHN AVALOS	44,850	5.11%
→	HILLARY RONEN	44,280	5.04%
→	MATT HANEY	42,795	4.87%
→	FRANCES HSIEH	40,189	4.58%
→	HONEY MAHOGANY	36,337	4.14%
→	ANABELL IBÁÑEZ	34,353	3.91%
→	SHANELL WILLIAMS	32,010	3.64%
→	PETER GALLOTTA	31,826	3.62%
→	RAFAEL MANDELMAN	29,150	3.32%
→	BEVAN DUFTY	28,376	3.23%
→	GLORIA BERRY	26,915	3.06%
→	NANCY TUNG	26,176	2.98%
	KEVIN ORTIZ	25,773	2.93%
	SOPHIE MAXWELL	24,697	2.81%
	CAROLE MIGDEN	24,396	2.78%
	KRISTEN ASATO-WEBB	23,774	2.71%
	MIKE CHEN	20,771	2.37%
	CHRISTOPHER CHRISTENSEN	20,388	2.32%
	SHAMANN WALTON	20,245	2.31%
	NIMA RAHIMI	19,573	2.23%
	VALLIE BROWN	19,246	2.19%
	MICK DEL ROSARIO	19,153	2.18%
	NOMVULA O'MEARA	18,658	2.12%
	TYRA FENNELL	18,594	2.12%
	AUSTIN HUNTER	17,055	1.94%
	SHAUN HAINES	16,288	1.85%
	TAMI BRYANT	16,179	1.84%
	STEVEN BUSS	15,746	1.79%

DEMOCRATIC PARTY COUNTY CENTRAL COMMITTEE, DISTRICT 17 (Continued)

Candidates	Vote Totals	% of Votes
VICTOR OLIVIERI	15,399	1.75%
BIVETT BRACKETT	10,823	1.23%
WILLIAM (ANUBIS) DAUGHERTY	7,499	0.85%
RICK HAUPTMAN	7,205	0.82%
DAVID VILLA-LOBOS	4,959	0.56%
WRITE-IN CANDIDATES	-	0.00%
Total Votes	878,255	
Overvotes	7,434	
Undervotes	960,645	
Total Ballots Cast	1,846,334	

DEMOCRATIC PARTY COUNTY CENTRAL COMMITTEE, DISTRICT 19

10 seats available for this district

	Candidates	Votes	% of Votes
→	GORDON MAR	28,863	7.39%
→	KEITH BARAKA	25,624	6.56%
→	SUZY LOFTUS	24,876	6.37%
→	A. J. THOMAS	24,658	6.31%
→	LEAH LACROIX	23,532	6.02%
→	MANO RAJU	23,235	5.95%
→	JANICE LI	23,153	5.93%
→	QUEENA CHEN	21,550	5.52%
→	LI MIAO LOVETT	21,329	5.46%
→	FAAUUGA MOLIGA	20,289	5.19%
	MARY JUNG	19,957	5.11%
	KELLY AKEMI GROTH	19,435	4.98%
	PAUL MIYAMOTO	18,123	4.64%

DEMOCRATIC PARTY COUNTY CENTRAL COMMITTEE, DISTRICT 19 (Continued)

Candidates	Vote Totals	% of Votes
AHSHA SAFAI	16,607	4.25%
KAT ANDERSON	15,232	3.90%
JANE NATOLI	14,894	3.81%
CYN WANG	13,075	3.35%
NADIA RAHMAN	10,542	2.70%
SEEYEW MO	8,799	2.25%
MAWULI TUGBENYOH	8,522	2.18%
ABRA PAULINE CASTLE	8,285	2.12%
WRITE-IN CANDIDATES	-	0.00%
Total Votes	390,580	
Overvotes	1,720	
Undervotes	486,990	
Total Ballots Cast	879,290	

REPUBLICAN PARTY COUNTY CENTRAL COMMITTEE, DISTRICT 17

11 seats available for this district

	Candidates	Vote Totals	% of Votes
→	ERIN SMITH	2,924	10.35%
→	LISA REMMER	2,614	9.25%
→	CALE GARVERICK	2,461	8.71%
→	RYAN LAM	2,148	7.60%
→	JOSEPH C ROBERTS	1,980	7.01%
→	STEPHEN WAID	1,963	6.95%
→	JOSH YORK	1,961	6.94%
→	NICOLE GARAY	1,913	6.77%
→	KRISTA GARVERICK	1,897	6.71%
→	LARRY MARSO	1,869	6.62%
→	CHRISTIAN FOSTER	1,825	6.46%
	LEO LACAYO	1,703	6.03%
	EVE DEL CASTELLO	1,508	5.34%
	CHRIS WARD KLINE	1,487	5.26%
	WRITE-IN CANDIDATES	-	0.00%
	Total Votes	28,253	
	Overvotes	165	
	Undervotes	49,539	
	Total Ballots Cast	77,957	

C. STATE PROPOSITIONS

I certify the results for the following **STATE PROPOSITION**:

(Results represent votes cast in San Francisco only)

PROPOSITION 13 - "Authorizes Bonds for Facility Repair, Construction, and Modernization at Public Preschools, K-12 Schools, Community Colleges, and Universities"

	Vote Totals	% of Votes		
→	YES	210,751	75.46%	Overvotes 73
	NO	68,546	24.54%	Undervotes 25,570

C. CITY PROPOSITIONS

I certify the results for the following **CITY PROPOSITIONS**:

Unless otherwise noted, measures require 50% + 1 affirmative votes to pass.

1. PROPOSITION A - "City College Job Training, Repair and Earthquake Safety Measure"

Measure requires 55% affirmative votes to pass.

	Vote Totals	% of Votes		
→	YES	203,027	72.39%	Overvotes 52
	NO	77,436	27.61%	Undervotes 24,425

2. PROPOSITION B - "San Francisco Earthquake Safety and Emergency Response Bond, 2020"

Measure requires 66 2/3% + 1 affirmative votes to pass.

	Vote Totals	% of Votes		
→	YES	233,656	82.84%	Overvotes 59
	NO	48,387	17.16%	Undervotes 22,838

3. PROPOSITION C - "Retiree Health Care Benefits for Former Employees of the San Francisco Housing Authority"

		Vote Totals	% of Votes		
→	YES	192,261	70.55%	Overvotes	51
	NO	80,268	29.45%	Undervotes	32,360

4. PROPOSITION D - "Vacancy Tax"

Measure requires 66 2/3% + 1 affirmative votes to pass.

		Vote Totals	% of Votes		
→	YES	195,059	70.09%	Overvotes	79
	NO	83,248	29.91%	Undervotes	26,554

5. PROPOSITION E - "Limits on Office Development"

		Vote Totals	% of Votes		
→	YES	151,293	55.64%	Overvotes	59
	NO	120,626	44.36%	Undervotes	32,962

**List of SHA-512 Hash Values for Certified Results Reports
Statement of the Results
Presidential Primary Election, March 3, 2020**

This list represents the various certified results reports the Department of Elections issued for the March 3, 2020, Presidential Primary Election. The file names for each report are listed numerically, and underneath each file name is the SHA-512 cryptographic hash value applicable to each file. All reports are posted on the Department's website: www.sfelections.org/results

1. **"Summary – PDF,"** lists a summary of votes cast by contest, using a PDF format.

Hash value:

56CB1E0BA2761C5B817152754BD896E9A8783BB813BC750B667DCB7976B64C5E7F8F568E97
37146E73471D4C20BD21718A432CCD503983D1B81C199E54DD7A86

2. **"Summary – Excel,"** lists a summary of votes cast by contest, using Microsoft Excel.

Hash value:

F7635D5B431252E5A8D356E191261B5A6308DFBDE0FB681A795D174350D8EF9ED42EB848D
C1911D7BA371724A9CD66BE9B04343D95083E274F082C4B1C8D4095

3. **"Summary – XML,"** lists a summary of votes cast by contest, using XML format.

Hash value:

84D40DFE176182B50C9D0853EA51A3192BF6C771D1472A37DF27B0469C50489511FBA3EF28
36FC37904EE515706026DA43D42AC5ED4224DA1E33FBEF19A957C5

4. **"SOV – PDF,"** lists votes cast in each precinct and for each contest, using a PDF format.

Hash value:

6153442EB41058324FD7EA166BD36AC1A6418A2BB7C86D0FB837BCBF0784893963932EE49F
53AE055E385A023DA52A07DB124BF2F8B4FAAB6CAC7F453F77509E

5. **"SOV – Excel,"** lists votes cast in each precinct and for each contest, using Microsoft Excel.

Hash value:

F14B168565433E9E20181360117CCBB653D7FF4665AA6061BB6A923EEFCBC8541BD31CA3F1
037793C3BCC4ECB57D44C8C661E1B65EDBDD520E2C9B02C0C6417C

6. **"SOV – XML,"** lists votes cast in each precinct and for each contest, using XML format.

Hash value:

A85376B10536AC1DCDB5AD994C03588F0AEBD7E67F11F58E04D0A435D5117677204689577B
2E93287DDAE5B775D101056FED158F1C1066E9FF6EB5ACF93926EA

7. **"District SOV – PDF,"** lists votes cast in each district and for each contest, using a PDF format.

List of SHA-512 Hash Values for Certified Results Reports
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Hash value:

8AA4E2CE50B86C089AFF71C6BF2C5DCDB8E025B50F37C67A28212E645EE471F15675DABE7
2D74049348BB4041E383CF1713C0620701EFB0189568CA41E689E10

8. “District SOV – Excel,” lists votes cast in each district and for each contest, using Microsoft Excel.

Hash value:

11AEFEC4CF4FAA567B13192B77E34AE60AE2DC2647B19306D198C958E86E5FFC62A0170A2
51D88EC6AB186B67B2695B270313CBF367526E6A3FEBD028364C96D

9. “Total Turnout by Party, Type, and Card - Text,” turnout report by ballot group in a TEXT format.

Hash value:

26B8B8DB775DF6A4C17EBBB36912DA961049EDD3D5C87E676F15814576307D97503B11C272
29D144CE4255C769FFCA9F715324C899E5276220865684A955F09C

10. “Total Turnout by Party, Type, and Card - Excel,” turnout report by ballot group, using Microsoft Excel.

Hash value:

45B4003BA1416646E92CD4E555B5A0421E5A51002008B7FB4C3FFBE556ADBF93C564027A52
94DB26F0033ECB9B828113A0958DD99C23497DAB0111A94D65C8C1

11. “Registration by Precinct and Party - Text,” voter registration listed by precinct and party in a TEXT format.

Hash value:

9EC5EC6D997783CF0AC4AF35FA3CE8DF2872D5F50FE4F15E8FAFCDB8F3C15D2F5C2F81FF
CBDC922D6BA3335FE01C4EFDE6D409681A8A907B90B272D56CBE2BA6

12. “Registration by Precinct and Party - Excel,” voter registration listed by precinct and party, using Microsoft Excel.

Hash value:

74762F61AF6553E6CC3FA7BEE4889BE6E2FA3051A34298AF6ED0739CEFC2FDD9FBF926288
CF37C5E7F2F9E2D470567389BE9261B738CD078D33B54847812B773

13. “Cast Vote Record - JSON,” lists votes cast on each ballot card in a zipped JSON format.

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Hash value:

C6B8954B5981040C085443F235F247A0B09F4D58C76429CF6883D32BD910FF507E862E49A70
028D2D889B4A44D919A7FCF84824D0EDE72F8224A636EDC04F84A

14. **“Ballot Images, District 1 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

45875383BC534A975AA2FEADBFB29974479937D4A96BFAE063B37508BB7E8BD94C412DA7B
B2068090D3706D6176749A79301E54467142342BAA0537D4D84BAA4

15. **“Ballot Images, District 2 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

84B0B4532657ECB968D8198F837195BF0FDF59424C01F8AD6EF43BEB0578CEC515C44C4A7
CEB3079927C5876C0515D2789DA1BF44504BEDF338C4A5A8069124A

16. **“Ballot Images, District 3 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

36A9EE8C627281CB01066423171A595F4B6EEFEA425F73EC4384559C088AF1F6A3B8104DBB
D2779906FF1992E0C788C9335B805E45BB616BA9F86CA0D91385BE

17. **“Ballot Images, District 4 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

1382BA3E7576F659D6E7029D0AA8A6AB1980D15FE41BE7F8AC3C5673A41B63DD4A14BE5E5
5EA7EB1B82B87DD667205BD6C1FE2AB5E0FA073D4711546660360F0

18. **“Ballot Images, District 5 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

521452A6768ADD2AB7AB0099D82763CB4EF91F5D843AF2F8E8626DFAEB5DB83A0968FD1A4
5ABF46A980EEB63883CA9D85292144992C0B5D7B8D3A4816F08821D

19. **“Ballot Images, District 6 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

0F802922D016A6A2E2C32F7B86562211DE6CD9A4D9C2BB523785AFC40743CA66FD45650C72
D46B57191C820A58C1E07169DA163E0453B2A4D47E95158B2FAB4E

20. **“Ballot Images, District 7 - ZIP”**, contains scanned ballot images in zipped TIFF format.

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Hash value:

5796DD67C2F6EAF01E666BDDCC840DFC6EC3B377E8BFDE76ED225C28344356E36AF33903
DDADD0CB6163A275B57FE4B588738CA263C8B4A988D82D044B6C3558

21. **“Ballot Images, District 8 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

5023F660E3BAE8677887A3C39969069FB1DAB948C06AAAB7321501525507CB34588B2E3C2B
8CFE971EDD0356A756444A81331369DE68DAF0FEE4205C77DD5E79

22. **“Ballot Images, District 9 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

CEE2F73C38F2E85863D159F26BA0EDE93A1F310A1C41312EB4CCE5CD2DF95AC053E9541A
B570FBAE18F47B7F27132DCE5C3FAAD11D59F5682C717CB7D1B65444

23. **“Ballot Images, District 10 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

687ED2FBB5290970D700E14671592D0C7656C7C13FB4D1DA4CC13A2EB5A4BFEEB40183C6A
4F3826F7859B6D899227DDE8E0F369A0D63C6885D87E28E279D3E77

24. **“Ballot Images, District 11 - ZIP”**, contains scanned ballot images in zipped TIFF format.

Hash value:

09BBE0139022C4412B15F37408B7F92277D811A4D59599CEF8507D2DF34690D08CDC68A8E4B
A8D44220CE31B42E29496474A1536A63AA6C185BEE6836F931697

25. **“ImageCast Central Logs - ZIP”**, audit logs from ImageCast Central machines used at City Hall.

Hash value:

508B4EBDF293E709A16A3248763B409C4EA1F8ADF673328BABFC1CE92E6A8C12E1B1046FE1
4E7EB562496FB35204A6CE6DAA3E51FD3E8C959DCAB0FA24869352

26. **“Vote-by-Mail Status Report”**, lists the disposition of the vote-by-mail ballots the Department received.

Hash value:

262CE2BDD21FCB24C13A82FE25F65D9C95A1ED31A526858001E134446D2B9F24DF4E21988F
A49659A8FD930299161F1FA642D87B36C4C1A0484B55502EE06C99

**List of SHA-512 Hash Values for Certified Results Reports
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27. **“Provisional Ballot Status Report,”** lists the disposition of the provisional ballots the Department received.

Hash value:

4B8D96BF2FABAF896428C0668B1643D5A23D3091C037236147FB0EE3A8AF35F1AA5548D5F62
2EFC471692F75B4C86EBA5A72E19D110BB457DD26C26ABBB4B7A8

28. **“Conditional Voter Registration Report,”** lists the disposition of the ballots cast during the Conditional Voter Registration period.

Hash value:

E89DF4EF421F0BDC91A67CA0D647EA6B21B80332E0AE538F5AE48169805D8842CECF12C7DF
BBBEDDAAC49FE540E2435BA2E56830795D2E80F9B2AF790CE99AAB

29. **“SHA-512.csv,”** provides a list of all hashed election results files in CSV format.

Hash value:

D96FA2F4DB78000CDAD850D81F3736BE897A97AF9100F407FFF971473014C3A1F3026944140
B30C347C437251848249153797DA7AA5E5E3F4F99D58EEBC2707A



March 19, 2020

California Secretary of State
1500 11th Street, 5th Floor
Sacramento, CA 95814

March 3, 2020 Presidential Primary Election Results of 1% Post-Election Manual Tally

Pursuant to state elections law, the San Francisco Department of Elections (Department) is required to conduct a manual tally of all ballots, including vote-by-mail and provisional ballots, cast in 1% of San Francisco's voting precincts and 1% of vote-by-mail and provisional ballots cast, as part of the Official Canvass of the election. The Department compares the results of the manual tally to the results reports generated by the voting equipment used to tabulate ballot cards. The purpose of the manual tally is to verify the accuracy of the voting equipment used in the election. Upon completion of the 1% manual tally, the Department prepares a report on the results of the manual tally and includes the report in the certification of the Official Canvass for the election.

The following is a report on the results of the manual tally of 1% of the precinct, vote-by-mail, and provisional ballots for the March 3, 2020 Presidential Primary Election.

Random Selection of Precincts

On March 12, 2020, the Department conducted a random selection of precincts and batches for the manual tally in accordance with California Elections Code section 15360 (d).

Five days prior to selecting the precincts for the manual tally, the Department issued a press release and posted a public notice on its website, sfelections.org, and outside its office, announcing the date, time, and place of the random selection of precincts and batches. Additionally, the Department webcast the random selection process and posted the recording on its website.

For the March 3rd election, the Department was required to conduct a manual tally of ballots cast in a minimum of six precincts, to represent 1% of San Francisco's 606 precincts included in the election, and 1% of all vote-by-mail and provisional ballots. State elections law also requires a manual tally of votes cast be conducted on all contests present in the election.

The random selection was divided in three categories. The first category was for selecting six precincts for ballots cast at the polling places. The second category was for selecting 8 batches (or boxes) of Vote-by-mail (VBM) ballots out of 730 batches. The third category was for selecting 1 batch (or box) for the Provisional (PV) ballots out of 73 batches. Using three 10-sided dice, the Department randomly selected the precincts and batches to be tallied in full. Because the selected precincts for the one batch of PV ballots did not cover all contests for the election, an additional batch was randomly

selected to cover the remaining contest. For this additional PV ballot batch, only the U.S. Representative, District 14 was manually tallied. For a list of randomly selected precincts and contests tallied in each precinct, see Appendix A.

Conducting the 1% Manual Tally

The 1% manual tally of randomly selected precincts and batches began on Friday, March 14, 2020 and completed on Monday, March 17, 2020. The manual tally took place at the Department's warehouse at Pier 31, along Embarcadero St. The manual tally was open to public observation both in person and via live streaming on the Department's website at sfelections.org/live.

For each selected precinct and batch, Department personnel manually tallied votes cast on the ballots, including precinct ballots cast using the Ballot Scanning Machines (BSM), and accepted vote-by-mail and provisional ballots, including those issued at the Department's City Hall Voting Center. Vote-by-mail and provisional ballots, and paper duplications of ballots through the remake process using the Ballot Marking Device are tabulated using the ImageCast Central (ICC) machines. The manual counts were then compared against the results reports from the voting system ballot counts. If there were any discrepancies between the two tallies, the Department sought resolution or explanations for these discrepancies.

For this election, the Department need not have to test the voting system's application of the ranked-choice voting (RCV) algorithm. There were no RCV contest in this election.

Department personnel worked in eight four-person teams to manually tally votes on precinct ballots, vote-by-mail ballots, and provisional ballots. Each team was assigned one precinct or one batch to count at a time. Once all the votes for a contest had been counted, a supervisor verified that the manual count matched the machine count. If all the vote counts matched, the team proceeded to the next contest until all the contests on the card had been counted.

Department personnel attempted to resolve any discrepancies between the manual tally and the machine count and documented the resolutions on Manual Tally Incident forms. For this election, there were no discrepancy found during the 1% manual tally. There were Initial discrepancies but these were superficial and were due to miscounts by the team members.

Results of the 1% Manual Tally

In accordance with the Post-Election Manual Tally Emergency Regulations, a "variance" means any difference between the machine tally and the manual tally for a contest, including, but not limited to, differences due to machine malfunction, operator error, or voter error in marking a ballot. Upon completion of the manual tally of 1% of San Francisco's precincts for the March 3rd election, the Department found no variances between the manual tallies and the results reports caused by voting equipment malfunction, see Appendix B.

The results of the 1% manual tally confirm that the voting equipment used in the March 3, 2020 Presidential Primary Election accurately tabulated votes cast for contests appearing on the official ballot.

Appendices

- A. Randomly Selected Precincts and Contests Tallied for the 1% Manual Tally
- B. Summary of Results of the 1% Manual Tally

Appendix A:

The following table provides a list of randomly selected precincts and the contests tallied for each precinct.

Randomly Selected Precincts and Contests Tallied for the 1% Manual Tally March 3, 2020 Election			
Initial five precincts selected for Precinct Ballots			
Order Drawn	Precinct	Ballot Type	Contests Tallied
1st	9105	5	All
2nd	9126	5	All
3rd	9133	5	All
4th	7924	2	All
5th	9737	1	All
6th	1111	1	All
Initial six batches selected for VBM Ballots			
Order Drawn	Batch (Box) #	Ballot Type	Contests Tallied
1st	622	mixed	All
2nd	621	mixed	All
3rd	147	mixed	All
4th	199	mixed	All
5th	293	mixed	All
6th	397	mixed	All
7th	398	mixed	All
8th	234	mixed	All
Initial batch selected for PV Ballots			
Order Drawn	Batch #	Ballot Type	Contests Tallied
1st	4020	mixed	All
2nd	4079	mixed	U.S. Representative, District 14

Appendix B:

The following table provides a summary of the results of the 1% manual tally, including any discrepancies between the manual tally and the results reports generated by the voting equipment and possible causes of these discrepancies.

Summary of Results of the 1% Manual Tally			
March 3, 2020 Election			
Precinct	Contests Tallied	Precinct Ballots	
		Discrepancies found?	Causes
1111	All	No	NA
7924	All	No	NA
9105	All	No	N/A
9126	All	No	NA
9133	All	No	NA
9737	All	No	NA
Batch	Contests Tallied	Vote-by-Mail Ballots	
(Box) #		Discrepancies found?	Causes
147	All	No	NA
199	All	No	NA
234	All	No	NA
293	All	No	NA
397	All	No	NA
398	All	No	NA
621	All	No	NA
622	All	No	NA
Batch	Contests Tallied	Provisional Ballots	
(Box) #		Discrepancies found?	Causes
4020	All	No	NA
4079	U.S. Representative, District 14	No	NA