




CITY AND COUNTY OF SAN FRANCISCO  
**DEPARTMENT OF ELECTIONS**

John Arntz, Director

**Memorandum**

**To:** Angela Calvillo, Clerk of the Board of Supervisors  
**From:** John Arntz, Director of Elections   
**Date:** June 22, 2022  
**RE:** Certification of Local Results from June 7, 2022, Consolidated Statewide Direct Primary Election

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Attached are the documents associated with my certifying the results of votes cast for local measures and contest in the Consolidated Statewide Direct Primary Election in San Francisco on June 7, 2022.

Please let me know if I can provide more information or answer any questions.

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Honorable Members of the 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**  
**Consolidated Statewide Direct Primary Election – June 7, 2022**

I, John Arntz, Director of Elections, certify that I have canvassed the ballots cast at the Consolidated Statewide Direct Primary Election held on Tuesday, June 7, 2022, in the City and County of San Francisco, 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 on June 7, 2022, 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 Statewide Direct Primary Election – June 7, 2022." I also declare that the number of ballots cast in said election was 229,760; therefore, 46.37% of San Francisco's 495,498 registered voters voted in this election.

In accordance with California Elections Code section 15400, I certify that the total number of votes cast for each candidate and for and against each measure is shown in this Statement of the Results and 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](https://sfelections.org/results) and is incorporated by reference into this Statement of the Results.

The turnout recorded in the Statement of the Vote indicates that 229,229 of the City's 495,498 registered voters, or 46.26%, cast ballots in this election, which is slightly different than the totals mentioned above. The reason for the difference between the Statement of the Vote and this Statement of the Results is 531 voters voted and returned Card 3 which included the City Propositions than voted and returned Card 1, which included the contest for Governor. Also, the voting system reports turnout based on the number of Card 1s cast whenever an election requires multi-card ballots. In most multi-card elections, more voters will cast Card 1 than the other cards. In this election, however, more voters cast Card 3s, which listed the City Propositions. Despite this slight difference between the two reports, all votes are accounted for in the Statement of the Vote.

This Statement of the Results includes tables that summarize total votes cast in each contest, organized as follows:

**A. Voter-Nominated Offices**

1. Governor
2. Lieutenant Governor
3. Secretary of State
4. State Controller
5. State Treasurer
6. Attorney General
7. Insurance Commissioner
8. Board of Equalization, District 2
9. U.S. Senator Full Term (Term ending January 3, 2029)
10. U.S. Senator, Partial Term (Term ending January 3, 2023)
11. U.S. Representative, District 2

Statement of the Results  
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12. U.S. Representative, District 1
13. U.S. Representative, District 12
14. State Assembly, District 12
15. State Assembly, District 18
16. State Assembly, District 17
17. State Assembly, District 19

**B. Nonpartisan Office**

1. Superintendent of Public Instruction

**C. Local Office**

1. City Attorney

**D. City and County Propositions**

1. **A**, MUNI Reliability and Street Safety Bond
2. **B**, Building Inspection Commission
3. **C**, Recall Timelines and Vacancy Process
4. **D**, Victims and Witness Rights
5. **E**, Behested Payments
6. **F**, Refuse Collection and Disposal
7. **G**, Public Health Emergency Leave
8. **H**, District Attorney Recall Measure

Although the Statement of the Results includes the contests for U.S. Representative, Districts 2 and 12, and contests for State Assembly, Districts 12 and 18, no San Francisco voters live in these districts; therefore, these contests are not included in the attached results tables. The boundary that places U.S. Representative District 2 and State Assembly District 12 within San Francisco extends from the City to a small part of Angel Island. The boundary that places U.S. Representative District 12 and State Assembly District 18 within San Francisco extends to the extreme southwest corner of Alameda Island. Other than these uninhabited Census blocks on the islands attributed to San Francisco, the districts lie entirely within Marin and Alameda Counties respectively.

For each results table, the candidate or ballot measure position with the most votes is preceded by an arrow (→). For contests that were voted on in other counties in addition to San Francisco, the results shown are for San Francisco only; the overall results and outcome may differ.

For this election, all voters used three-card ballots, with the content on each card as follows:

- Card 1:** Voter-nominated offices of Governor, Lieutenant Governor, Secretary of State, State Controller, State Treasurer, and Attorney General, State Insurance Commissioner, Board of Equalization
- Card 2:** Voter-nominated offices of United States Senator (Full Term), United States Senator (Partial Term), United States Representative, and Member of the State Assembly; nonpartisan office of State Superintendent of Public Instruction
- Card 3:** Office of the City Attorney, and City and County propositions A–H



### **Voting System and Election Transparency**

The City's voting system allows for increased election transparency through the posting of images of voted ballots, equipment transaction logs, and other election reports, all of which will be posted with the final election results on the Department's website, [sfelections.org](https://sfelections.org).

**Voted ballot images.** The City's voting system captures images of each voted ballot cast in an election. This creates a visual history of how ballots were marked. After each election, the Department posts the ballot images on its website, allowing members of the public to view each voted ballot cast in the City. Prior to posting the ballot images, the Department reviews the images and redacts identifying information that voters may have placed on ballot cards.

**AuditMark.** In addition to the voting system capturing images of voted ballot cards, the system also adds an explanation at the bottom of each ballot image indicating how the voting equipment interpreted and tallied each vote mark. These explanations, or AuditMarks, provide the public with information on how the voting system operates in relation to the recording and reporting of every vote cast in this election. This means that for every oval with a mark inside the voting target, even for partial marks, the voting system adds an explanation to the images of voted ballots of how the system understood and registered the markings within each oval.

**Ballot Audit and Review.** The Department will post an application that allows the public to sort the ballot images according to precinct, contest, and district. The City is the first jurisdiction in the country to utilize this application, known as "Ballot Audit and Review."

**Cast Vote Record.** The Department posted a "Cast Vote Record" that lists each vote recorded on each ballot card. 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.

### **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.

### **Attachments**

Attachment 1 provides a table that lists the votes cast in each contest, and for and against each City Proposition.

Attachment 2 is the list of SHA-512 hashes associated with each final election results report and machine audit logs.

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 that the voting equipment operated properly, and accurately counted and reported election results.

In witness whereof, I hereby affix my hand and seal this 22<sup>nd</sup> day of June, 2022.

John Amiz, Director of Elections





## A. VOTER-NOMINATED OFFICES

I certify the results for the following **VOTER-NOMINATED OFFICES**:  
(Results represent votes cast in San Francisco only)

### 1. GOVERNOR

Candidates	Vote Totals	% of Votes
GAVIN NEWSOM	166,667	76.02%
BRIAN DAHLE	13,249	6.04%
LUIS JAVIER RODRIGUEZ	11,079	5.05%
MICHAEL SHELLENBERGER	9,662	4.41%
ROBERT C. NEWMAN II	2,343	1.07%
RONALD A. ANDERSON	2,252	1.03%
SHAWN COLLINS	1,960	0.89%
JENNY RAE LE ROUX	1557	0.71%
JOEL VENTRESCA	1526	0.70%
ANTHONY TRIMINO	1496	0.68%
REINETTE SENUM	1246	0.57%
MAJOR WILLIAMS	1074	0.49%
HEATHER COLLINS	749	0.34%
DAVID LOZANO	716	0.33%
LEO S. ZACKY	561	0.26%
DANIEL R. MERCURI	430	0.20%
WOODROW "WOODY" SANDERS III	394	0.18%
FREDERIC C. SCHULTZ	347	0.16%
CRISTIAN RAUL MORALES	326	0.15%
ARMANDO "MANDO" PEREZ-SERRATO	314	0.14%
JAMES G. HANINK	301	0.14%
RON JONES	264	0.12%
LONNIE SORTOR	246	0.11%
ANTHONY "TONY" FANARA	237	0.11%
BRADLEY ZINK	131	0.06%
SERGE FIANKAN	117	0.05%
JEFF SCOTT*	2	0.00%
GURINDER BHANGOO*	0	0.00%
Total Votes Cast	219,246	
Undervotes	9,159	
Overvotes	824	
Total Ballots Cast	229,229	

\*Qualified Write-in Candidate

## 2. LIEUTENANT GOVERNOR

Candidates	Vote Totals	% of Votes
ELENI KOUNALAKIS	145,972	70.79%
MOHAMMAD ARIF	17,300	8.39%
ANGELA E. UNDERWOOD JACOBS	13,718	6.65%
DAVID FENNEL	12,821	6.22%
CLINT W. SAUNDERS	5,347	2.59%
WILLIAM CAVETT "SKEE" SAACKE	5,103	2.47%
JEFFREY HIGHBEAR MORGAN	3,919	1.90%
DAVID HILLBERG	2,008	0.97%
JAMES ORLANDO OGLE*	2	0.001%
Total Votes Cast	206,190	
Undervotes	22,847	
Overvotes	192	
Total Ballots Cast	229,229	

\*Qualified Write-in Candidate

## 3. SECRETARY OF STATE

Candidates	Vote Totals	% of Votes
SHIRLEY N. WEBER	164,246	80.35%
ROB BERNOSKY	18,914	9.25%
RACHEL HAMM	7,173	3.51%
GARY N. BLENNER	6,649	3.25%
RAUL RODRIGUEZ JR.	3,059	1.50%
JAMES "JW" PAINE	2,419	1.18%
MATTHEW D. CINQUANTA	1,949	0.95%
DESMOND A SILVEIRA*	4	0.002%
Total Votes Cast	204,413	
Undervotes	24,715	
Overvotes	101	
Total Ballots Cast	229,229	

\*Qualified Write-in Candidate

#### 4. STATE CONTROLLER

Candidates	Vote Totals	% of Votes
MALIA M. COHEN	75,108	36.67%
RON GALPERIN	40,684	19.86%
LANHEE CHEN	32,260	15.75%
YVONNE YIU	31,313	15.29%
STEVE GLAZER	16,931	8.27%
LAURA WELLS	8,517	4.16%
Total Votes Cast	204,813	
Undervotes	24,188	
Overvotes	228	
Total Ballots Cast	229,229	

#### 5. STATE TREASURER

Candidates	Vote Totals	% of Votes
FIONA MA	149,614	73.79%
MEGHANN ADAMS	19,950	9.84%
JACK M. GUERRERO	18,578	9.16%
ANDREW DO	14,614	7.21%
Total Votes Cast	202,756	
Undervotes	26,341	
Overvotes	132	
Total Ballots Cast	229,229	

#### 6. ATTORNEY GENERAL

Candidates	Vote Totals	% of Votes
ROB BONTA	157,697	76.47%
NATHAN HOCHMAN	16,321	7.91%
ERIC EARLY	13,513	6.55%
ANNE MARIE SCHUBERT	12,713	6.16%
DAN KAPELOVITZ	5,975	2.90%
Total Votes Cast	206,219	
Undervotes	22,900	
Overvotes	110	
Total Ballots Cast	229,229	



**7. INSURANCE COMMISSIONER**

Candidates	Vote Totals	% of Votes
RICARDO LARA	88,282	44.71%
MARC LEVINE	47,031	23.82%
NATHALIE HRIZI	20,162	10.21%
ROBERT HOWELL	13,345	6.76%
GREG CONLON	13,182	6.68%
VINSON EUGENE ALLEN	4,354	2.20%
JASPER "JAY" JACKSON	4,304	2.18%
VERONIKA FIMBRES	4,293	2.17%
ROBERT J. MOLNAR	2508	1.27%
Total Votes Cast	197,461	
Undervotes	31,560	
Overvotes	208	
Total Ballots Cast	229,229	

**8. BOARD OF EQUALIZATION, DISTRICT 2**

Candidates	Vote Totals	% of Votes
SALLY J. LIEBER	94,812	50.14%
MICHELA ALIOTO-PIER	64,632	34.18%
PETER COE VERBICA	29,661	15.68%
Total Votes Cast	189,105	
Undervotes	39,971	
Overvotes	153	
Total Ballots Cast	229,229	

**9. UNITED STATES SENATOR (Full term ending January 3, 2029)**

Candidates	Vote Totals	% of Votes
ALEX PADILLA	162,710	77.90%
MARK P. MEUSER	13,421	6.43%
CORDIE WILLIAMS	5,439	2.60%
JOHN THOMPSON PARKER	2,921	1.40%
JON ELIST	2,855	1.37%
CHUCK SMITH	2,760	1.32%
JAMES P. BRADLEY	2,393	1.15%
DAN O'DOWD	2,380	1.14%
DOUGLAS HOWARD PIERCE	2,081	1.00%
SARAH SUN LIEW	1,999	0.96%
PAMELA ELIZONDO	1,525	0.73%
JAMES "HENK" CONN	1,196	0.57%
AKINYEMI AGBEDE	1,170	0.56%
CARLOS GUILLERMO TAPIA	1,043	0.50%
TIMOTHY J URSICH	916	0.44%
OBAIDUL HUQ PIRJADA	750	0.36%
ELEANOR GARCIA	722	0.35%
MYRON L. HALL	636	0.30%
ENRIQUE PETRIS	539	0.26%
DAPHNE BRADFORD	522	0.25%
ROBERT GEORGE LUCERO, JR	367	0.18%
DEON D. JENKINS	356	0.17%
DON J. GRUNDMANN	175	0.08%
MARK A. RUZON*	2	0.001%
MARC ALEXANDER ROTH*	1	0.0005%
LIJUN (LILY) ZHOU*	0	0.00%
IRENE RATLIFF*	0	0.00%
Total Votes Cast	208,879	
Undervotes	18,025	
Overvotes	2,166	
Total Ballots Cast	229,070	

\*Qualified Write-in Candidate

9. UNITED STATES SENATOR (Partial term ending January 3, 2023)

Candidates	Vote Totals	% of Votes
ALEX PADILLA	165,360	80.72%
MARK P. MEUSER	16,200	7.91%
JAMES P. BRADLEY	8,136	3.97%
TIMOTHY URSICH JR.	4,244	2.07%
JON ELIST	3,102	1.51%
DAPHNE BRADFORD	2,691	1.31%
MYRON L. HALL	2,663	1.30%
DAN O'DOWD	2,422	1.18%
JOHN THOMPSON PARKER*	28	0.01%
IRENE RATLIFF*	1	0.0005%
Total Votes Cast	204,847	
Undervotes	23,692	
Overvotes	531	
Total Ballots Cast	229,070	

\*Qualified Write-in Candidate

10. UNITED STATES REPRESENTATIVE, DISTRICT 11

Candidates	Vote Totals	% of Votes
NANCY PELOSI	133,798	71.65%
JOHN DENNIS	20,054	10.74%
SHAHID BUTTAR	19,471	10.43%
EVE DEL CASTELLO	7,319	3.92%
JEFFREY PHILLIPS	3,595	1.93%
BIANCA VON KRIEG	2,499	1.34%
Total Votes Cast	186,736	
Undervotes	19,592	
Overvotes	137	
Total Ballots Cast	206,465	



**12. UNITED STATES REPRESENTATIVE, DISTRICT 15**

Candidates	Vote Totals	% of Votes
KEVIN MULLIN	6,813	35.77%
DAVID J. CANEPA	5,950	31.24%
GUS MATTAMMAL	3,145	16.51%
EMILY BEACH	2,042	10.72%
JIM GARRITY	473	2.48%
ANDREW G. WATTERS	395	2.07%
FERENC PATAKI	231	1.21%
Total Votes Cast	19,049	
Undervotes	3,516	
Overvotes	40	
Total Ballots Cast	22,605	

**13. MEMBER OF THE STATE ASSEMBLY, DISTRICT 17**

Candidates	Vote Totals	% of Votes
MATT HANEY	69,412	63.24%
DAVID CAMPOS	27,270	24.85%
BILL SHIREMAN	13,071	11.91%
Total Votes	109,753	
Undervotes	13,485	
Overvotes	85	
Total Ballots Cast	123,323	

**14. MEMBER OF THE STATE ASSEMBLY, DISTRICT 19**

Candidates	Vote Totals	% of Votes
PHIL TING	71,775	79.94%
KARSTEN WEIDE	18,011	20.06%
Total Votes	89,786	
Undervotes	15,948	
Overvotes	13	
Total Ballots Cast	105,747	

## **B. NONPARTISAN OFFICES**

I certify the results for the following **NONPARTISAN OFFICE**:

### **1. SUPERINTENDENT OF PUBLIC INSTRUCTION**

Candidates	Vote Totals	% of Votes
TONY K. THURMOND	98,600	53.68%
MARCO AMARAL	28,101	15.30%
GEORGE YANG	19,390	10.56%
AINYE E. LONG	18,398	10.02%
LANCE RAY CHRISTENSEN	8,347	4.54%
JIM GIBSON	5,968	3.25%
JOSEPH GUY CAMPBELL	4,886	2.66%
Total Votes	183,690	
Undervotes	45,244	
Overvotes	136	
Total Ballots Cast	229,070	

## **C. LOCAL OFFICE**

I certify the results for the following **LOCAL OFFICE**.

### **1. CITY ATTORNEY**

Candidate	Vote Totals	% of Votes
→ DAVID CHIU	163,569	100.00%
Total Votes	163,569	
Undervotes	66,185	
Overvotes	6	
Total Ballots Cast	229,760	

## **F. CITY AND COUNTY PROPOSITIONS**

I certify the results for the following **CITY AND COUNTY PROPOSITIONS**:  
*Unless otherwise noted, measures required 50% + 1 affirmative votes to pass.*

### **1. PROPOSITION A, "MUNI Reliability and Street Safety Bond."**

		Vote Totals	% of Votes		
→	<b>NO</b>	74,350	34.89%	Undervotes	16,632
	<b>YES</b>	138,730	65.11%	Overvotes	48

Measure required 66 2/3% affirmative votes to pass.

### **2. PROPOSITION B, "Building Inspection Commission."**

		Vote Totals	% of Votes		
→	<b>YES</b>	129,230	61.99%	Undervotes	21,247
	<b>NO</b>	79,234	38.01%	Overvotes	49

### **3. PROPOSITION C, "Recall Timelines and Vacancy Appointments."**

		Vote Totals	% of Votes		
→	<b>NO</b>	123,685	57.95%	Undervotes	16,268
	<b>YES</b>	89,731	42.05%	Overvotes	76

### **4. PROPOSITION D, "Office of Victim and Witness Rights; Legal Services for Domestic Violence Victims."**

		Vote Totals	% of Votes		
→	<b>YES</b>	125,795	59.08%	Undervotes	16,761
	<b>NO</b>	87,128	40.92%	Overvotes	76

### **5. PROPOSITION E, "Behested Payments."**

		Vote Totals	% of Votes		
→	<b>YES</b>	144,114	69.41%	Undervotes	22,060
	<b>NO</b>	63,520	30.59%	Overvotes	66

### **6. PROPOSITION F, "Refuse Collection and Disposal."**

		Vote Totals	% of Votes		
→	<b>YES</b>	144,129	70.68%	Undervotes	25,795
	<b>NO</b>	59,796	29.32%	Overvotes	40

### **7. PROPOSITION G, "Public Health Emergency Leave."**

		Vote Totals	% of Votes		
→	<b>YES</b>	137,842	64.44%	Undervotes	15,792
	<b>NO</b>	76,077	35.56%	Overvotes	49

### **8. PROPOSITION H, "Recall Measure Regarding the District Attorney."**

		Vote Totals	% of Votes		
→	<b>YES</b>	122,588	55.03%	Undervotes	6,936
	<b>NO</b>	100,177	44.97%	Overvotes	59



**List of SHA-512 Hash Values for Certified Results Reports  
Consolidated Statewide Direct Primary Election, June 7, 2022**

This list represents the various certified results reports the Department of Elections issued for the June 7, 2022, Consolidated Statewide Direct 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](http://www.sfelections.org/results)

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

**Hash value:**

45DA39D433E397E9A34D1D066D6464DBF97892663E109263FF0B4DEDC07994A893DE274AFB  
80AF4986CE14C8FE6E417E7DE7B4BE4A1D7958D99EA3538FB64A3F

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

**Hash value:**

25658FEC87E15CC987BFB4066F6A04A694C03C816273D923F0404849B78D621A1511DF5BA0  
4EF203C1A0C365494871EB45F6ECDD2E67105BD7D87C16E4E89501

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

**Hash value:**

4A60278546E5B9500BD4469951C3083739DBBAA1577D49FA0A4380023A0C0E598AC43FCE47  
3F7147DF95CD6E2CEC68ACA4FB2FC8FD890C95291077674D1BA9B7

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

**Hash value:**

10D1165F0EBBECC8BEA473A127853A51763215B6D3EF365B4D7D5DC7E3CBF9752952DC8F4  
0DB7DBA70FED5111578095E09213589051E506353E0AD88EBA1364B

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

**Hash value:**

B3A79D6798F729DD14F6EF62597D3B6DC411C4D23C89EA39D77290D749A29A3AF0A08B1D4  
B8EC23D110C48E2A91335AD223B33463B6DB200BFBC158FAFBB22CB

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

**Hash value:**

FFC8727104CF44A07589EA75DDCDED291B745ADBA37B4CCFD3C198A5231E2BA5091C3139  
086DECF2798AF08FEB623D8C65AE0D9DE1D52455D5F80B3F4B113EDA

**List of SHA-512 Hash Values for Certified Results Reports  
Consolidated Statewide Direct Primary Election, June 7, 2022**

7. **"District SOV – Excel,"** lists votes cast in each district and for each contest, using Microsoft Excel.

**Hash value:**

3361996DAA6E8C3DC51672DEEEE79B50BD457EFA4463920C3D3C90C4E5238C8C73E5E45E1  
FBBEC86A177F779D2267E82EE4FD1FFDBE7594774DE4232E4D50496

8. **"Cast Vote Record - JSON,"** lists votes cast on each ballot card in a zipped JSON format.

**Hash value:**

953721AC77677147A48AB2D85CBBF11E78284E5B1387E3865C7D5DCC53889197E08A49BAEE  
D3918C8752A40EB14084872423DDAD14BAEDCBDC A2AF76D2F4BD43

9. **"Ballot Images, Supervisorial District 1 - ZIP,"** contains scanned ballot images in zipped TIFF format.

**Hash value:**

078C43E3045B0F585F4D61C4AE240A496457E1CEC6C7BA1904F95CD5A4CCD8132C5B4F063  
9205BD1EB73EEF184BE3B4C2E3DA1618D79C1DC4E76221621F42A44

10. **"Ballot Images, Supervisorial District 2 - ZIP,"** contains scanned ballot images in zipped TIFF format.

**Hash value:**

A582556A3232AE7BDE406F73BF0C353B03A608F76607EBFFC2580B43442A73E4103C42DC7D  
F46E70AB0B20B00147BC18D0518C03EEE4FF7172D5897069CCBA8D

11. **"Ballot Images, Supervisorial District 3 - ZIP,"** contains scanned ballot images in zipped TIFF format.

**Hash value:**

170EF7921FD9D0E94A2726F0E034EC6AF2ACADC54785732F817EB0BF6F3BE306D2EFE29D5  
73976DFCA2150C1B3DF2F08446013D15501C16F6BFEF94C5340B93D

12. **"Ballot Images, Supervisorial District 4 - ZIP,"** contains scanned ballot images in zipped TIFF format.

**Hash value:**

A0C8116547EF66FED4A223482A12941264CF28BE4B76928A639C5C630EC5CD39B254639D05  
1D58B389D83142A610EF728E1829CC10B2F1854DBD843016B393B4

**List of SHA-512 Hash Values for Certified Results Reports  
Consolidated Statewide Direct Primary Election, June 7, 2022**

13. **"Ballot Images, Supervisorial District 5 - ZIP"**, contains scanned ballot images in zipped TIFF format.

**Hash value:**

0E9649B7008C8240EF9A71F63CFAA593BE9D9F056801AFB12047A72ACB9C94B756E0893D6D  
18635F04BFB2D1E4BB4FB4692D86361042DDC8F5C33B241C8807AD

14. **"Ballot Images, Supervisorial District 6 - ZIP"**, contains scanned ballot images in zipped TIFF format.

**Hash value:**

11EAE68139E7C9D097E857B58EDC3BC462A1BF04E667ACBA5E68FC8726400C188109EF6FA  
AC606BC30DB6EB249B066EB79DA8234E51647DE1EB3DD111A3D40B0

15. **"Ballot Images, Supervisorial District 7 - ZIP"**, contains scanned ballot images in zipped TIFF format.

**Hash value:**

1595EE51757D0FCBBDD157E5380DCCF10DFF8A8C0953C685CEB342CB03BCEE78FF55E064  
D4170A01CD88F1F58776DDC09C33C0FA7B2571FE9F416BBBD74E53E5

16. **"Ballot Images, Supervisorial District 8 - ZIP"**, contains scanned ballot images in zipped TIFF format.

**Hash value:**

FD3B7E8DA25F8840CC0521FBA3278BBBCFE0F1CB20A22DEEBCED9413D512ED83AB9BD4F  
759CED3DFE27460B738C1EA8809D82006AE1E340A0393BD2C63E5F83A

17. **"Ballot Images, Supervisorial District 9 - ZIP"**, contains scanned ballot images in zipped TIFF format.

**Hash value:**

E8412A4C1A597E51ACBE944BFAE9C028F05FA3FBE78F9545CF6423AAA90C107342F018660F  
7A808C7F682F05567DAA9C40B92BDA87F021F9EDCC45854BD2F98F

18. **"Ballot Images, Supervisorial District 10 - ZIP"**, contains scanned ballot images in zipped TIFF format.

**Hash value:**

A842D3C2087CD1679CA82D521AC8D7B530B3E0DB7783EFDCFDB487AC1CDB5D46000F97D4  
F12D82C7AA4BB4F1AFDAF719AC001E9E7C89B12A7AE783DABB815B3D



**List of SHA-512 Hash Values for Certified Results Reports  
Consolidated Statewide Direct Primary Election, June 7, 2022**

19. **"Ballot Images, Supervisorial District 11 - ZIP"**, contains scanned ballot images in zipped TIFF format.

**Hash value:**

7BAB1393798B5B3E7224CBEAD4F96E8943724812AA3B75786E96D46FA6B056766C800750F71  
FF12B995F5244F567559A91C37AA076AD328BB87D03BA0CE636BB

20. **"Ballot Scanning Machine Logs - ZIP"**, audit logs from Ballot Scanning Machines used at Polling Places on Election Day.

**Hash value:**

3C80991F423B3CE7E83BC9B3022BF9C9D93971A6B5B416D3B61E06C1CB7353A89CF65A1402  
3491F11468148B7AB6D9E528B0385F8BE60F6944D6A3E346067741

21. **"ImageCast Central Logs - ZIP"**, audit logs from ImageCast Central machines used at City Hall.

**Hash value:**

5A3A9C88428069D1128B87BE2C8243191D70A399F2665537A777BEF7CE3D775AD6228BD438A  
F47B105889C6F47F9360BD92C811FFD16393C1812945AEC0336E5

22. **"Vote-by-Mail Status Report"**, lists the disposition of the vote-by-mail ballots the Department received.

**Hash value:**

F46B23C8B6EA3DFE694C73328D5930DA05146CEFD71D4F2448E185E51F007E1D83E591D48C  
2DC54545E5962989DD2842840B2E736B5672B70CA32CBF4EBF2C6F

23. **"Provisional Ballot Status Report"**, lists the disposition of the provisional ballots the Department received.

**Hash value:**

662CBBFC73CE44DED0E005EC2122DE9DDD2633BEB68CB5FE914728ED587018B20590CB37A  
4A3947C6164A96BC8513F1F338BB61F483360F96A78DFF26693FCCA

24. **"Conditional Voter Registration Report"**, lists the disposition of the ballots cast during the Conditional Voter Registration period.

**Hash value:**

ED0F51B0E101FD809C494FBCCFA7C655774E9A72DE5C9D6DD4F2D6688D14FC3F3FEC91962  
9DC96E93ECC986E1EA169E3EC04659C0EA9D7F35164CC6F7C6AACAO

**List of SHA-512 Hash Values for Certified Results Reports  
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25. "SHA-512.csv," provides a list of all hashed election results files in CSV format.

**Hash value:**

64B53E8DCFD2C64C6389BF15223BECE1B192B14841B77188CF6A06CC404DA9C02DF6E4865F  
52FFCDE2F5CBE4FCF3DE20BAF29F2310F606BFA2EDB222A87E5037



June 21, 2022

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

**June 7, 2022, Consolidated Statewide Direct Primary Election  
Results of 1% Post-Election Manual Tallies**

Pursuant to state elections law, the San Francisco Department of Elections (Department) is required to conduct a manual tally of all ballots cast in 1% of San Francisco's polling places and 1% of the vote-by-mail ballots (VBM) cast, and may also manually tally 1% of provisional ballots (PV) cast, as part of the Official Canvass of the election. The Department compares the results of the manual tallies to the results reports generated by the voting equipment used to tabulate ballot cards. The purpose of the manual tallies is to verify the accuracy of the voting equipment used in the election. Upon completion of the 1% manual tallies, the Department prepares a report on the results of the manual tallies 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 tallies of 1% of the polling place, vote-by-mail, and provisional ballots cast in the June 7, 2022, Consolidated Statewide Direct Primary Election.

**Random Selection of Precincts**

On June 14, 2022, the Department conducted a random selection of precincts and batches for the manual tallies in accordance with California Elections Code section 15360.

Five days prior to selecting the precincts and batches for the manual tallies, the Department issued a press release and posted a public notice on its website, [sfelections.org](https://www.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 June 2022 election, the Department conducted manual tallies of ballots cast in a minimum of six precincts, to represent 1% of San Francisco's 588 polling places included in the election, 11 VBM batches to represent 1% of 1,035 batches of vote-by-mail ballots and, finally, and one PV batch to represent the 1% of the 23 batches of provisional ballots. State elections law also requires a manual tally of votes cast to 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 11 batches (or boxes) of VBM ballots. The third category was for selecting one batch (or box) for the PV ballots.

Using three 10-sided dice, the Department randomly selected the precincts and using four 10-sided dice, randomly selected the VBM batches to be tallied in full. For the random selection of 1 batch of PV ballots, two 10-sided dice were rolled. After the six precincts were selected for the precinct ballots, there was one contest (United States Representative District 15) that was not included amongst the contests in the selected precincts. To include this contest, the Department again rolled three dice to randomly select a precinct which included the necessary contest on its ballot. The additional precinct selected was 7042. For this precinct, only the one contest was tallied. For a list of randomly selected precincts and batches contests tallied in each precinct (see Part I table at the end of this report).

### **Conducting the 1% Manual Tallies**

The 1% manual tallies of randomly selected precincts and batches began on Thursday, June 16, 2022, and was completed on June 18<sup>th</sup>. The manual tallies occurred in the Department's warehouse on Pier 31, which is located on The Embarcadero. The manual tallies were open to public observation both in person and via live streaming on the Department's website at [sfelections.org/live](https://sfelections.org/live).

For each selected precinct and batch, Department personnel manually tallied votes cast on the ballots, including polling place 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 issued by the voting system. If there were any discrepancies between the two tallies, the Department sought resolution or explanations for these discrepancies and document the resolutions using Manual Tally Incident forms.

Department personnel worked in four, four-person teams to manually tally votes on polling place ballots, vote-by-mail, and provisional ballots. Each team was assigned one precinct or one batch to count at a time. After all the votes for a contest had been counted, a supervisor verified whether 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.

### **Results of the 1% Manual Tallies**

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 tallies associated with ballots cast in San Francisco for the June 7, 2022, Consolidated Statewide Direct Primary Election, the Department found two incidences of a mismatch in votes counted in two contests only on the VBM ballots (see Part II table at the end of this report).

These two incidences of variance were found in the VBM ballots under batch 98 and batch 970. However, the variances were not due to machine error but due to a lightly marked ballot. In both cases, the vote marking on one of the candidates in the ballot was very light that the machine did not pick up the mark making it an undervote thus creating the discrepancy (see Part III table at the end of this report).



Overall, no variances were found between the manual tallies and the results reports caused by any voting equipment malfunction. The results of the 1% manual tallies confirm that the voting equipment used in the June 2022 election accurately tabulated and reported votes cast for contests appearing on the official ballot.

The following are tables that summarize the manual tallies.

Part I. Randomly Selected Precincts and Contests Tallied for the 1% Manual Tally

Part II. Summary of Results of the 1% Manual Tally

Part III. Comparison of Manual and Machine Tallies (for discrepancies only)

**Part I: Randomly Selected Precincts, Batches, and Contests Tallied for the 1% Manual Tallies**

**Randomly Selected Precincts/Batches and Contests Tallied for the 1% Manual Tally  
June 7, 2022, Election**

**Initial six precincts selected for Precinct Ballots**

Order Drawn	Precinct	Ballot Type	Contests Tallied	Order Drawn	Precinct	Ballot Type	Contests Tallied
1st	9409	2	All	4th	7341	2	All
2nd	9719	4	All	5th	9451	2	All
3rd	7525	4	All	6th	7308	4	All

**Additional one precinct selected for Precinct Ballots**

Order Drawn	Precinct	Ballot Type	Contests Tallied
7th	7042	3	United States Representative District 15

**Eleven batches selected for VBM Ballots**

Order Drawn	Batch	Ballot Type	Contests Tallied	Order Drawn	Precinct	Ballot Type	Contests Tallied
1st	68	Mix	All	7th	96	Mix	All
2nd	777	Mix	All	8th	338	Mix	All
3rd	247	Mix	All	9th	979	Mix	All
4th	137	Mix	All	10th	1020	Mix	All
5th	138	Mix	All	11th	970	Mix	All
6th	1022	Mix	All				

**One batch selected for PV Ballots**

Order Drawn	Batch	Ballot Type	Contests Tallied
7th	21	Mix	All



**Part II: Summary of Results of the 1% Manual Tallies**

Summary of Results of the 1% Manual Tally June 7, 2022, Election			
Precinct	Contests Tallied	Precinct Ballots	
		Discrepancies found?	Causes
7308	All	No	NA
7341	All	No	NA
7525	All	No	NA
9409	All	No	NA
9451	All	No	NA
9719	All	No	NA
7042	United States Representative District 15	No	NA
VBM Batch	Contests Tallied	Vote-by-Mail Ballots	
(Box) #		Discrepancies found?	Causes
68	All	No	NA
96	All	Yes	Very light vote mark on 1 candidate
137	All	No	NA
138	All	No	NA
247	All	No	NA
338	All	No	NA
777	All	No	NA
970	All	Yes	Very light vote mark on 1 candidate
979	All	No	NA
1020	All	No	NA
1022	All	No	NA
PV Batch	Contests Tallied	Provisional Ballots	
(Box) #		Discrepancies found?	Causes
21	All	No	NA

**Part III: Comparison of Manual and Machine Tallies (for discrepancies only)**

The following table details each discrepancy found during the 1% Manual Tally, including the precinct/batch number for which the discrepancy was found, the type of ballot on which the discrepancy was found, the number of votes indicated by the voting equipment results report (machine tally), the number of votes indicated by the manual tally, and the variance between the results report and manual tally. Each discrepancy is color-coded to indicate the identified cause of variance. For this Election there was only 1 type of cause of variance which was caused by faint vote marks.

Type of ink and density



Crease/ faint vote mark



Vote mark off the bubble



Misplaced ballot card/s



Comparison of Manual and Machine Tallies June 7, 2022, Election						
VBM Batch 98	Precinct Ballots			Vote-By-Mail Ballots		
LIEUTENANT GOVERNOR	Machine Tally	Manual Tally	Variance	Machine Tally	Manual Tally	Variance
ANGELA E. UNDERWOOD JACOBS				9	10	1
UNDERVOTES				10	9	-1
VBM Batch 970						
TREASURER	Machine Tally	Manual Tally	Variance	Machine Tally	Manual Tally	Variance
FIONA MA				121	122	1
UNDERVOTES				22	21	-1