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WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

## **Quarterly Report Quarter Ended September 30, 2017 (First Quarter FY 2017-2018)**

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San Francisco Public Utilities Commission  
Water System Improvement Program Project Labor Agreement  
Quarterly Report – First Quarter 2017-2018

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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-four (54) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.162 billion in original contract award through September 30, 2017.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-four (54) construction contracts with a value of \$2.162 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 13,394 construction workers were employed for 8,002,652 hours and earned wages of \$311,612,391 on WSIP PLA-covered projects.
- 1,141 San Francisco residents worked 549,812 hours and earned \$20,418,020 on WSIP PLA-covered projects representing 7% of covered hours and 264 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 5,966 residents of the Regional Service Territory earned wages of \$130,941,832 and worked 3,436,274 hours, representing 43% of covered hours and 1,652 full-time equivalent worker years.
- 14,307 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of September 30, 2017. 191 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through September 30, 2017			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,394	8,002,652	\$ 311,612,391	3,847
San Francisco	1,141	549,812	\$ 20,418,020	264
SFPUC Service Territory	5,966	3,436,274	\$ 130,941,832	1,652
Outside	6,631	4,016,566	\$ 160,252,539	1,931

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Construction Activity Highlights – Quarter Ending September 30, 2017

**Contracting:**

- There was no contract awarded during the reporting period.

**Employment:**

- 439 construction workers were employed for 101,065 hours and earned wages of \$4,219,931 on WSIP PLA-covered projects.
- 24 San Francisco residents worked 5,497 hours and earned wages of \$205,383 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 186 residents of the Regional Service Territory worked 43,644 hours and earned wages of \$1,747,055 on WSIP PLA-covered projects.
- 113 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and non-individual was prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending September 30, 2017			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	439	101,065	\$ 4,219,931	49
San Francisco	24	5,497	\$ 205,383	3
SFPUC Service Territory	186	43,644	\$ 1,747,055	21
Outside	229	51,924	\$ 2,267,493	25

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40 hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through September 30, 2017					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facility	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Watershed	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J. Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood Park	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andreas	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constmction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Proiect	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J. Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Aleman Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 54 Projects</b>					<b>\$ 2,162,341,320</b>

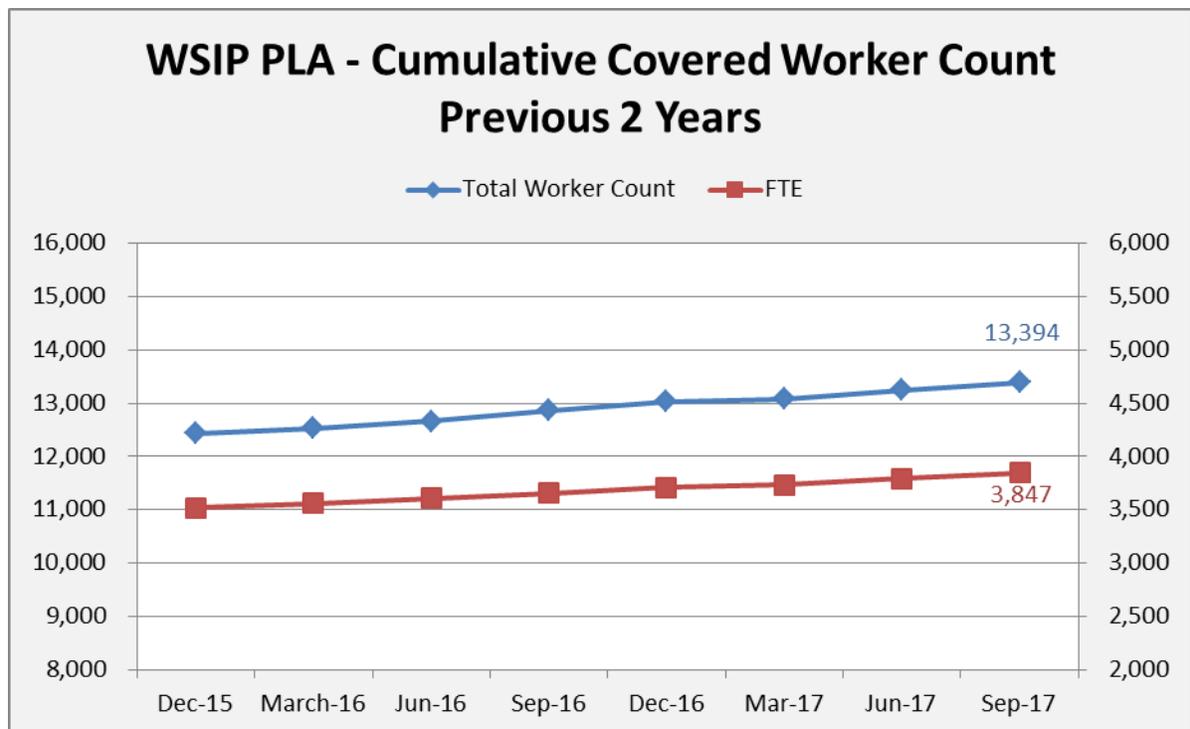
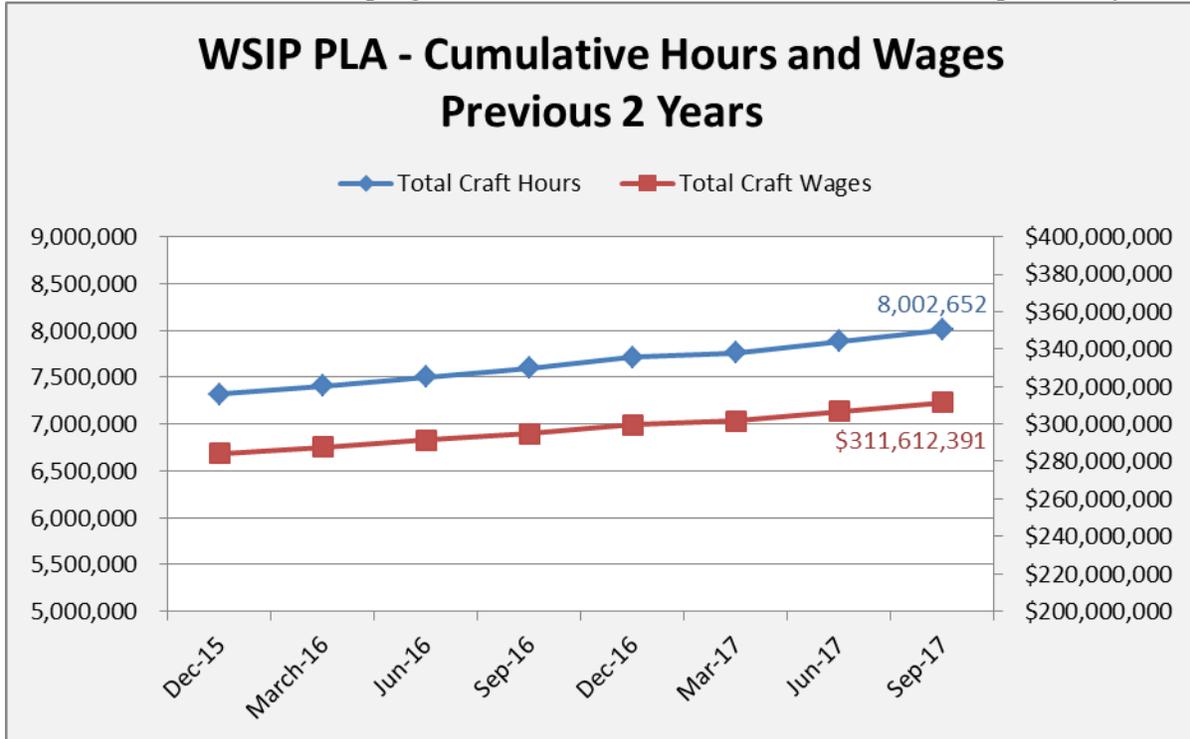
\* indicates projects located in San Francisco

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**Summary Charts**

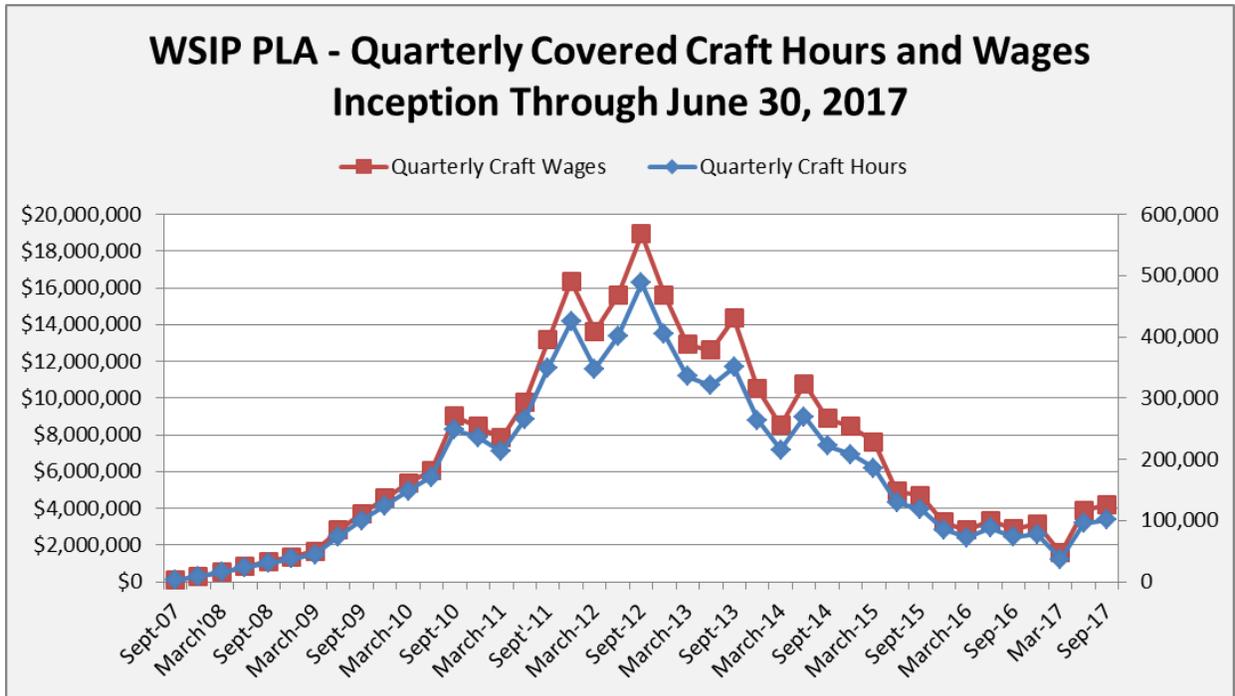
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending September 30, 2017; 13,394 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,002,652 craft hours and \$311,612,391 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

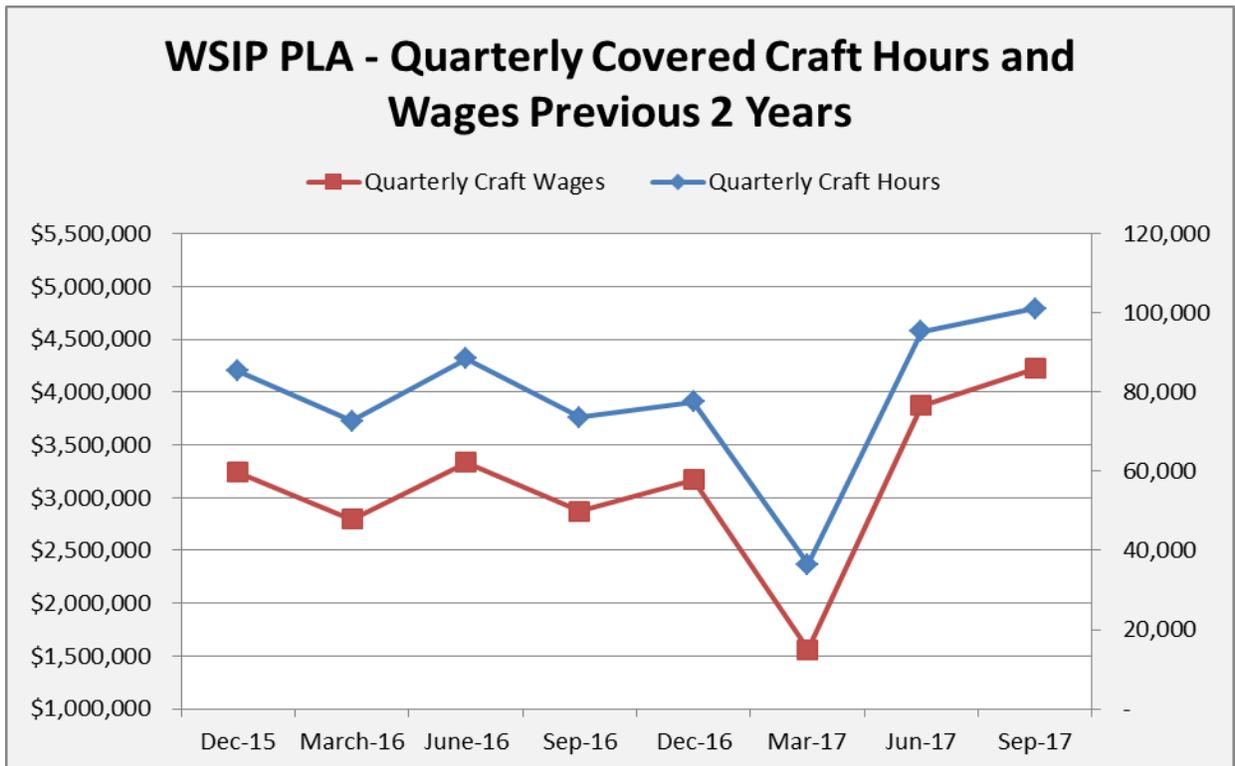


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of September 30, 2017, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 32 craft areas.

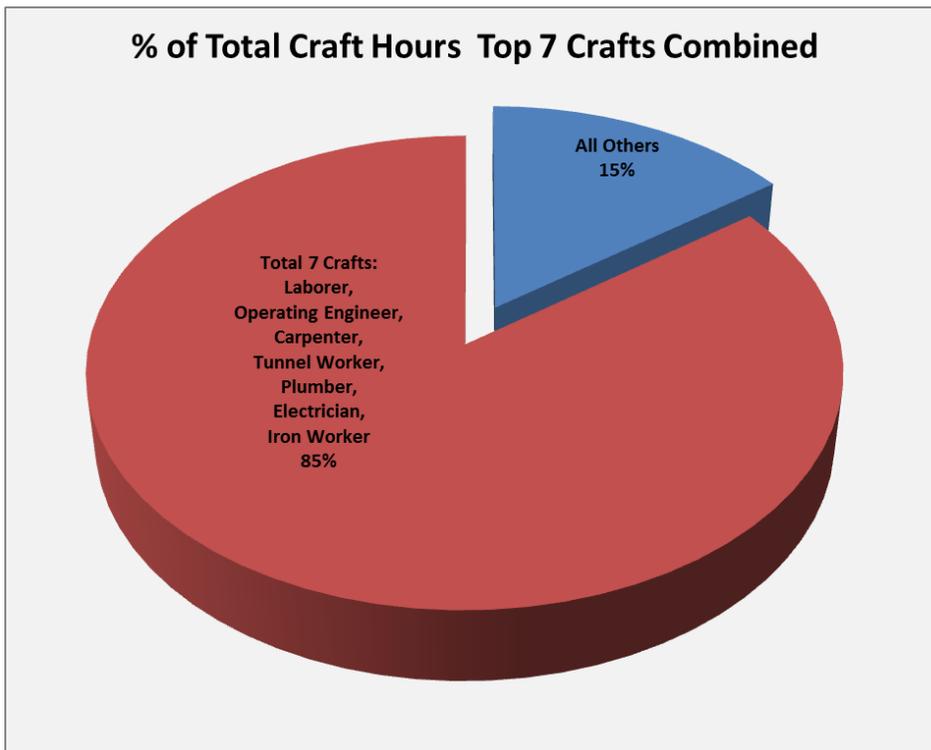
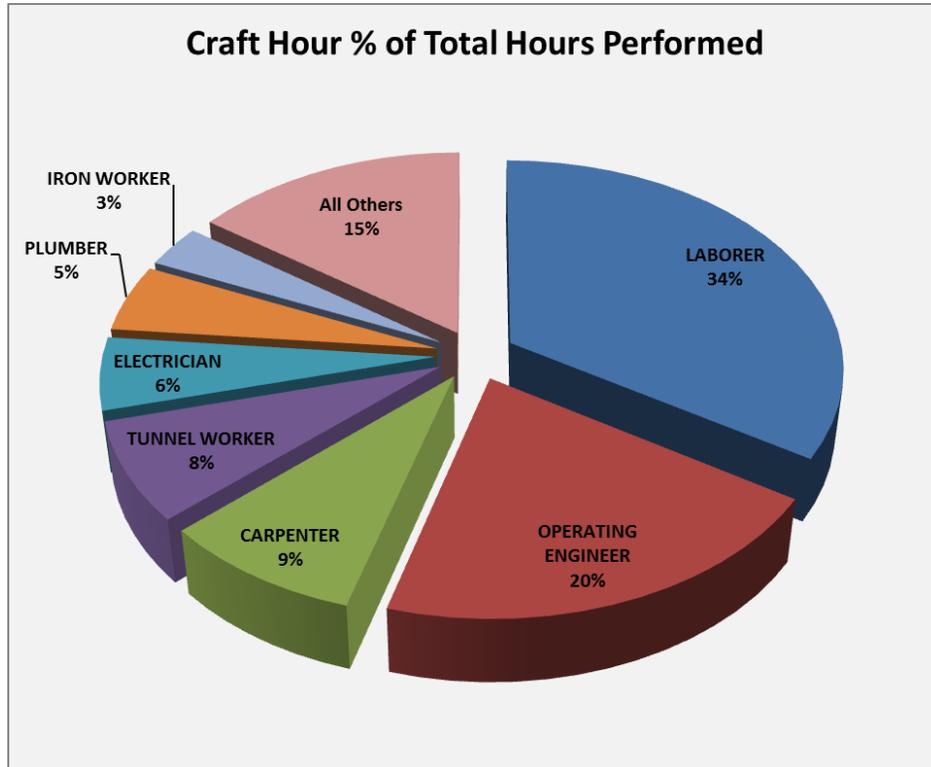
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through September 30, 2017					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,717,581	\$ 82,778,784	34.0%	26.6%	1,307
OPERATING ENGINEER (Combined)	1,637,622	\$ 66,113,720	20.5%	21.2%	787
CARPENTER	704,528	\$ 29,393,944	8.8%	9.4%	339
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	7.7%	8.3%	295
ELECTRICIAN	448,049	\$ 23,599,374	5.6%	7.6%	215
PLUMBER	415,181	\$ 19,384,087	5.2%	6.2%	200
IRON WORKER	262,294	\$ 8,879,975	3.3%	2.8%	126
<b>Top 7 Sub-Total</b>	<b>6,798,218</b>	<b>\$ 256,042,316</b>	<b>84.9%</b>	<b>82.2%</b>	<b>3,268</b>
PILE DRIVER (CARPENTER)	167,753	\$ 8,939,092	2.1%	2.9%	81
PAINTER	143,786	\$ 5,421,676	1.8%	1.7%	69
CEMENT MASON	120,865	\$ 4,203,034	1.5%	1.3%	58
BOILERMAKER-BLACKSMITH	119,080	\$ 6,265,903	1.5%	2.0%	57
BUILDING/CONSTRUCTION INSPECTOR AND FIE	71,748	\$ 2,872,363	0.9%	0.9%	34
ROOFER	50,016	\$ 1,700,057	0.6%	0.5%	24
FIELD SURVEYOR	20,433	\$ 814,502	0.3%	0.3%	10
SHEET METAL WORKER	16,450	\$ 793,055	0.2%	0.3%	8
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	0.1%	0.2%	6
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	0.1%	0.1%	4
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	0.1%	0.1%	3
GLAZIER	4,331	\$ 187,483	0.1%	0.1%	2
PLASTERER	3,750	\$ 132,027	0.0%	0.0%	2
PLASTER TENDER	1,281	\$ 42,303	0.0%	0.0%	1
SHEET METAL WORKER (HVAC)	1,205	\$ 39,847	0.0%	0.0%	1
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMENT PAINT	718	\$ 23,239	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROST INSUL	507	\$ 28,166	0.0%	0.0%	0
CARPET, LINOLEUM, SOFT FLOOR LAYER	354	\$ 15,964	0.0%	0.0%	0
TILE SETTER	351	\$ 12,929	0.0%	0.0%	0
TILE FINISHER	277	\$ 5,836	0.0%	0.0%	0
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	0.0%	0.0%	0
TERRAZZO WORKER	199	\$ 8,163	0.0%	0.0%	0
MARBLE FINISHER	40	\$ 1,342	0.0%	0.0%	0
TERRAZZO FINISHER	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticeable Sub-Total</b>	<b>751,430</b>	<b>\$ 32,803,985</b>	<b>9.4%</b>	<b>10.5%</b>	<b>361</b>
<b>Total Non-Apprenticeable</b>	<b>453,004</b>	<b>\$ 22,766,090</b>	<b>5.7%</b>	<b>7.3%</b>	<b>218</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,002,652</b>	<b>\$ 311,612,391</b>	<b>100.0%</b>	<b>100.0%</b>	<b>3,847</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of September 30, 2017. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 71% of craft hours worked on PLA-covered projects.



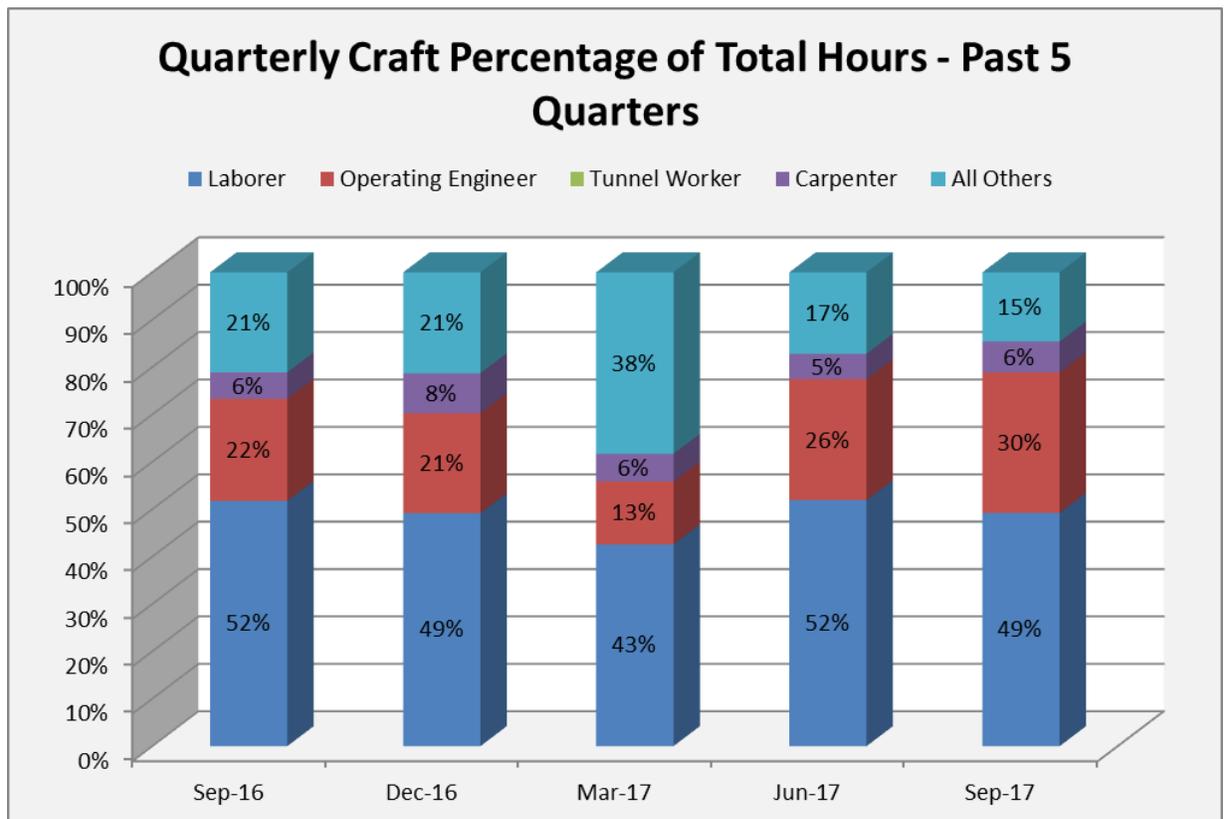
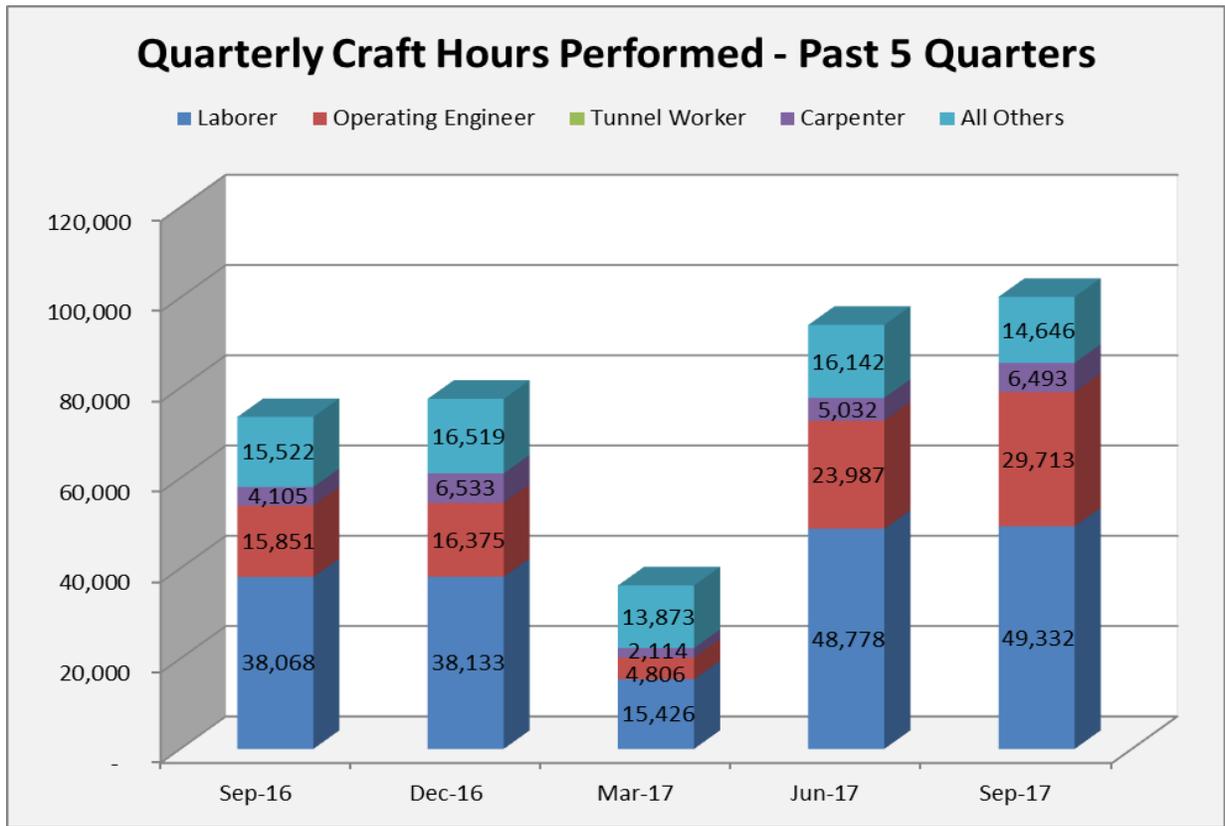
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total	Total	Quarter Ending	Quarter Ending
	Cumulative	Cumulative	9-30-2017	9-30-2017
	Hours	Wages	Hours	Wages
LABORER	2,717,581	\$ 82,778,784	49,332	\$ 1,727,314
OPERATING ENGINEER	570,627	\$ 21,765,656	20,963	\$ 1,004,020
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	1,012,871	\$ 42,079,875	8,751	\$ 461,846
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY WORK)	51,487	\$ 2,170,668	-	\$ -
OPERATING ENGINEER (SPECIAL SINGLE AND SECOND SHIFT)	2,637	\$ 97,521	-	\$ -
<b>OPERATING ENGINEER (COMBINED)</b>	<b>1,637,622</b>	<b>\$ 66,113,720</b>	<b>29,713</b>	<b>\$ 1,465,866</b>
CARPENTER AND RELATED TRADES	704,528	\$ 29,393,944	6,493	\$ 318,357
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	-	\$ -
ELECTRICIAN	448,049	\$ 23,599,374	839	\$ 52,576
PLUMBER	415,181	\$ 19,384,087	94	\$ 8,567
IRON WORKER	262,294	\$ 8,879,975	3,354	\$ 125,790
PILE DRIVER (CARPENTER)	167,753	\$ 8,939,092	4,139	\$ 206,138
PAINTER	143,786	\$ 5,421,676	1,220	\$ 50,458
CEMENT MASON	120,865	\$ 4,203,034	1,070	\$ 42,830
BOILERMAKER-BLACKSMITH	119,080	\$ 6,265,903	178	\$ 8,531
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS ANALYST	71,748	\$ 2,872,363	3,234	\$ 133,536
ROOFER	50,016	\$ 1,700,057	-	\$ -
FIELD SURVEYOR	20,433	\$ 814,502	34	\$ 1,211
SHEET METAL WORKER	16,450	\$ 793,055	333	\$ 17,782
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	-	\$ -
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	-	\$ -
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	-	\$ -
GLAZIER	4,331	\$ 187,483	-	\$ -
PLASTERER	3,750	\$ 132,027	-	\$ -
PLASTER TENDER	1,281	\$ 42,303	-	\$ -
SHEET METAL WORKER (HVAC)	1,205	\$ 39,847	153	\$ 4,908
BRICK TENDER	827	\$ 27,956	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER (LABORER)	718	\$ 23,239	-	\$ -
ASBESTOS WORKER, HEAT AND FROST INSULATOR	507	\$ 28,166	-	\$ -
CARPET, LINOLEUM, SOFT FLOOR LAYER	354	\$ 15,964	-	\$ -
TILE SETTER	351	\$ 12,929	-	\$ -
TILE FINISHER	277	\$ 5,836	-	\$ -
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	-	\$ -
TERRAZZO WORKER	199	\$ 8,163	-	\$ -
MARBLE FINISHER	40	\$ 1,342	-	\$ -
TERRAZZO FINISHER	4	\$ 160	-	\$ -
<b>Total Apprenticable</b>	<b>7,549,648</b>	<b>\$ 288,846,301</b>	<b>100,183</b>	<b>\$ 4,163,865</b>
<b>Non-Apprenticable</b>				
TEAMSTER	129,383	\$ 5,927,131	844	\$ 52,684
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)	97,641	\$ 7,092,763	31	\$ 2,798
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK) (SPECIAL SINGLE AND SECOND SHIFT)	95,208	\$ 4,417,947	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)	79,393	\$ 3,567,605	-	\$ -
ASBESTOS REMOVAL WORKER (LABORER)	17,057	\$ 431,301	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)	13,201	\$ 585,230	-	\$ -
WATER WELL DRILLER	12,313	\$ 454,372	-	\$ -
LANDSCAPE MAINTENANCE LABORER	1,691	\$ 39,705	-	\$ -
TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)	1,422	\$ 36,006	-	\$ -
TELECOMMUNICATIONS TECHNICIAN	1,160	\$ 37,245	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER)	1,123	\$ 56,467	8	\$ 584
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001	\$ 35,916	-	\$ -
DREDGER OPERATING ENGINEER	831	\$ 33,307	-	\$ -
OPERATING ENGINEER (BUILDING CONSTRUCTION)	635	\$ 24,481	-	\$ -
SLURRY SEAL WORKER	592	\$ 14,870	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER (PAINTER)	265	\$ 8,680	-	\$ -
IRONWORKER (DB)	80	\$ 2,772	-	\$ -
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	\$ 291	-	\$ -
<b>Total Non-Apprenticable</b>	<b>453,004</b>	<b>\$ 22,766,090</b>	<b>883</b>	<b>\$ 56,066</b>
<b>Total Apprenticable</b>	<b>7,549,648</b>	<b>\$ 288,846,301</b>	<b>100,183</b>	<b>\$ 4,163,865</b>
<b>Total WSIP PLA</b>	<b>8,002,652</b>	<b>\$ 311,612,391</b>	<b>101,065</b>	<b>\$ 4,219,931</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

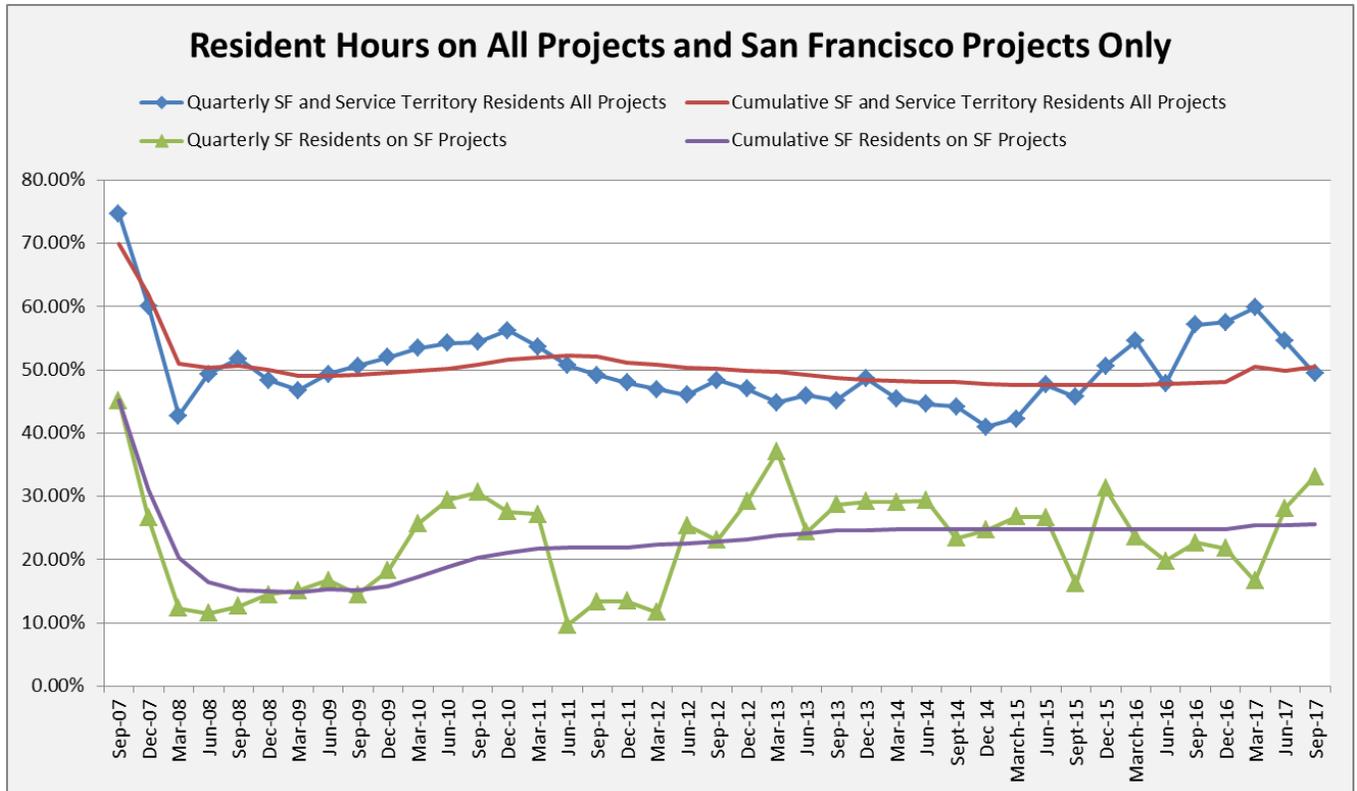


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**Worker Residence on the WSIP PLA**

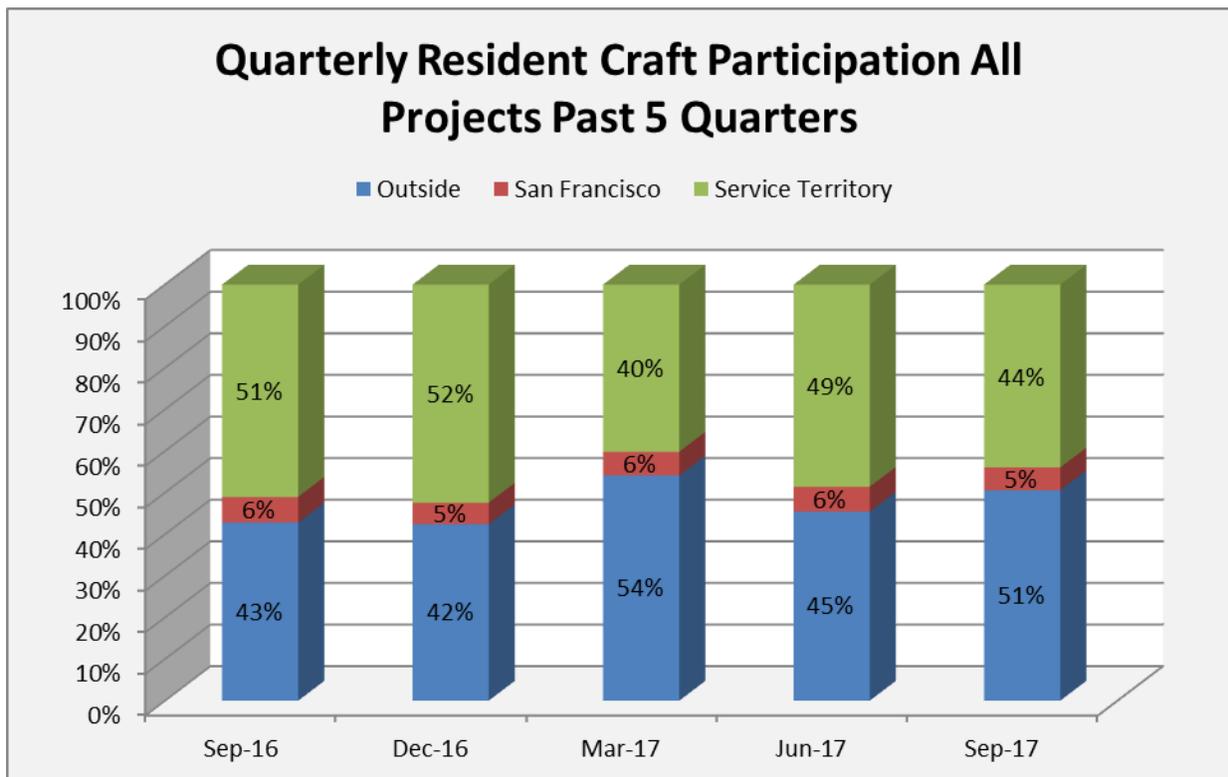
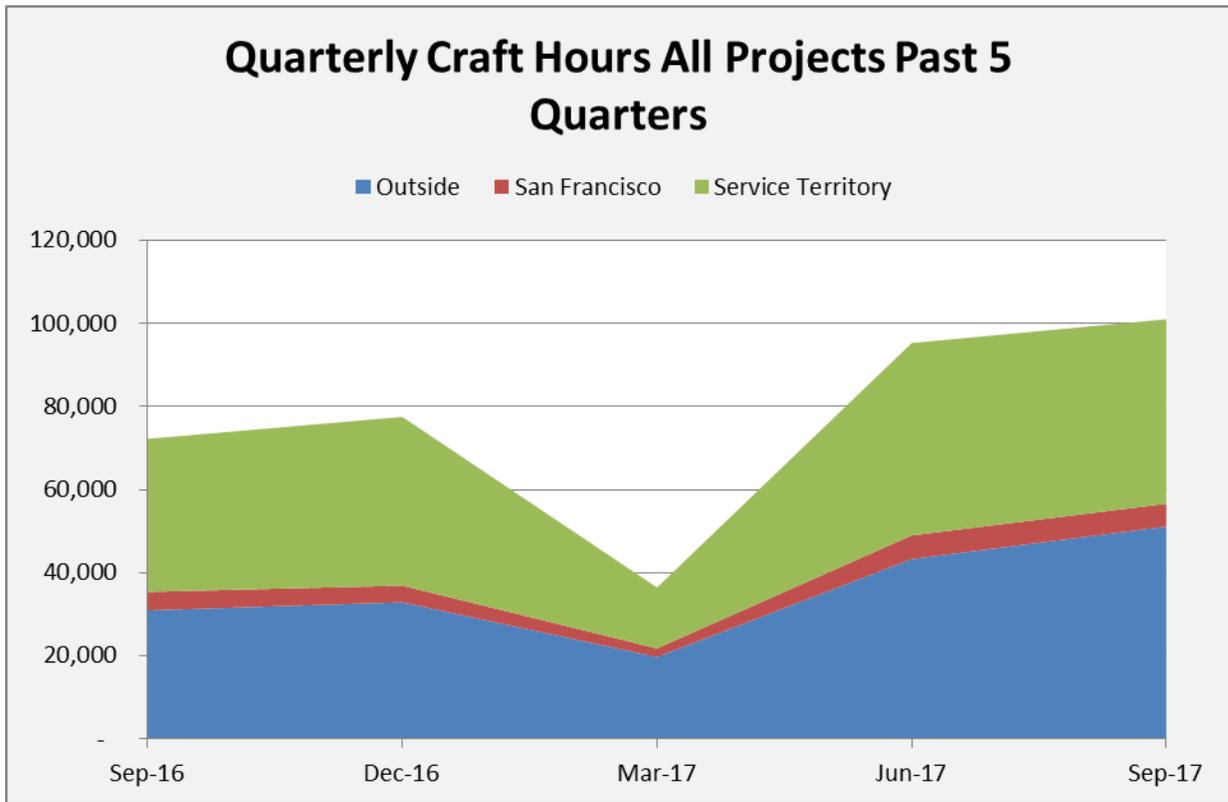
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through September 30, 2017.



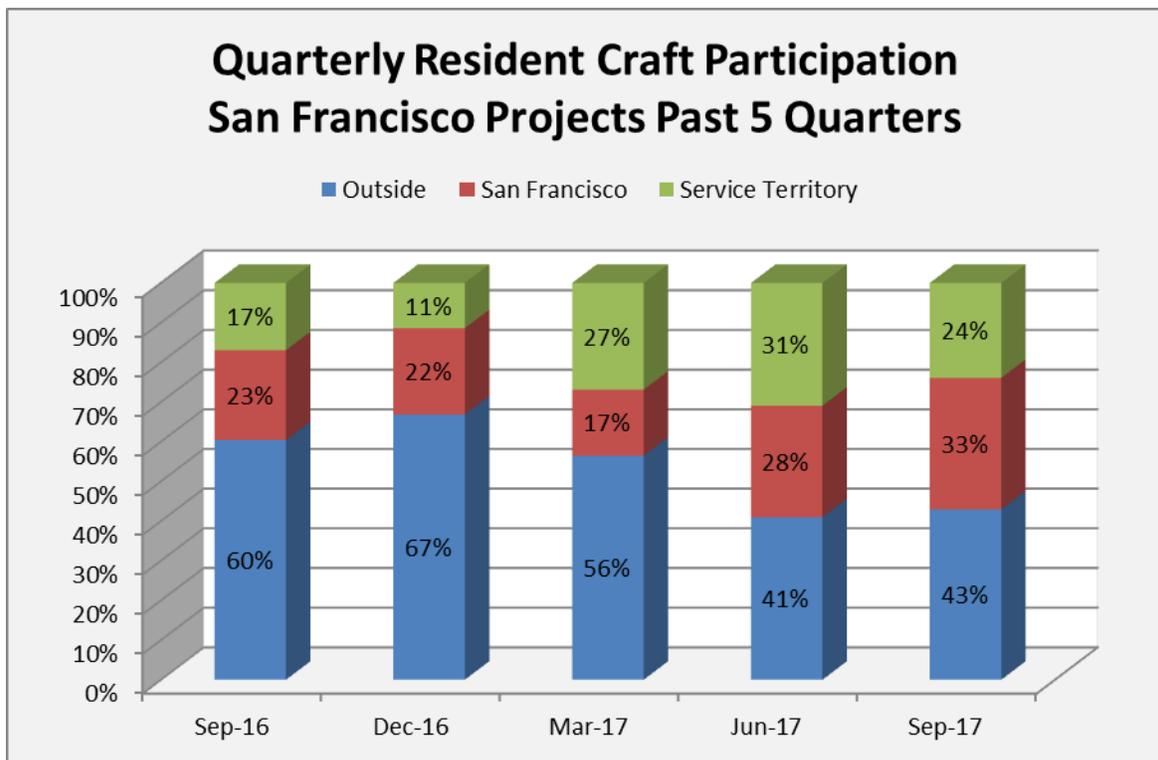
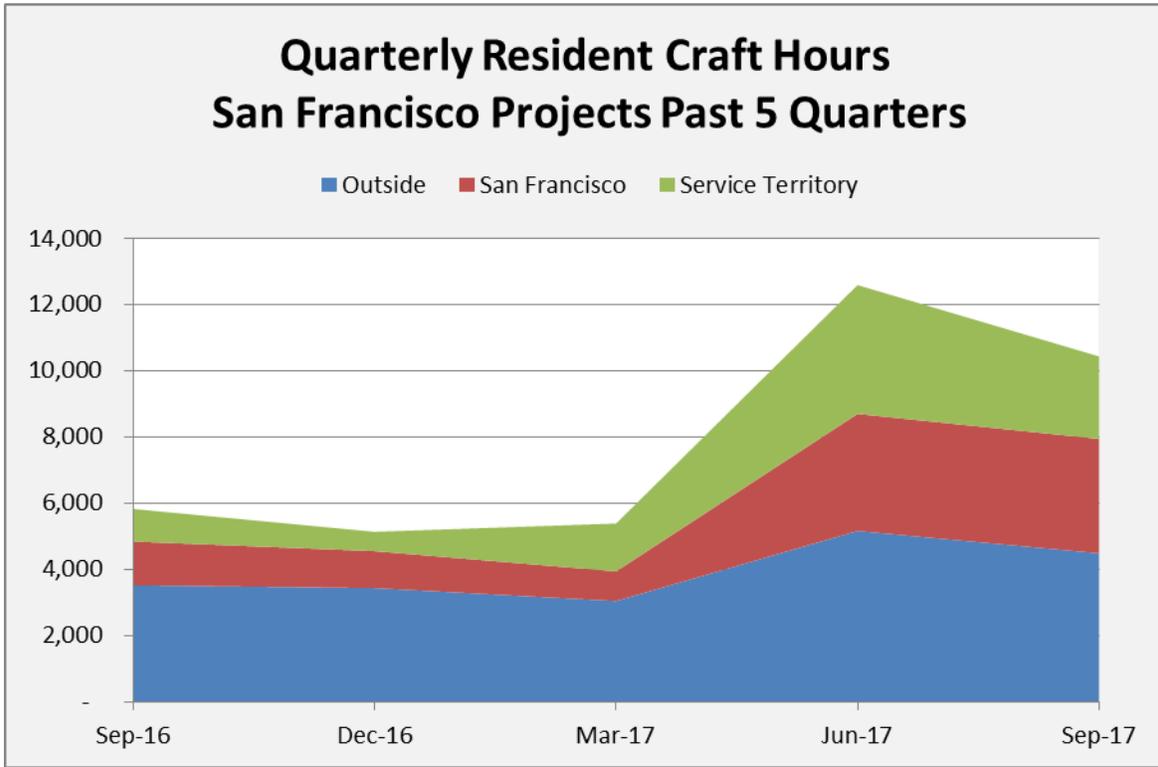
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**Residence on ALL WSIP PLA Projects** - Charted are 54 of the 54 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



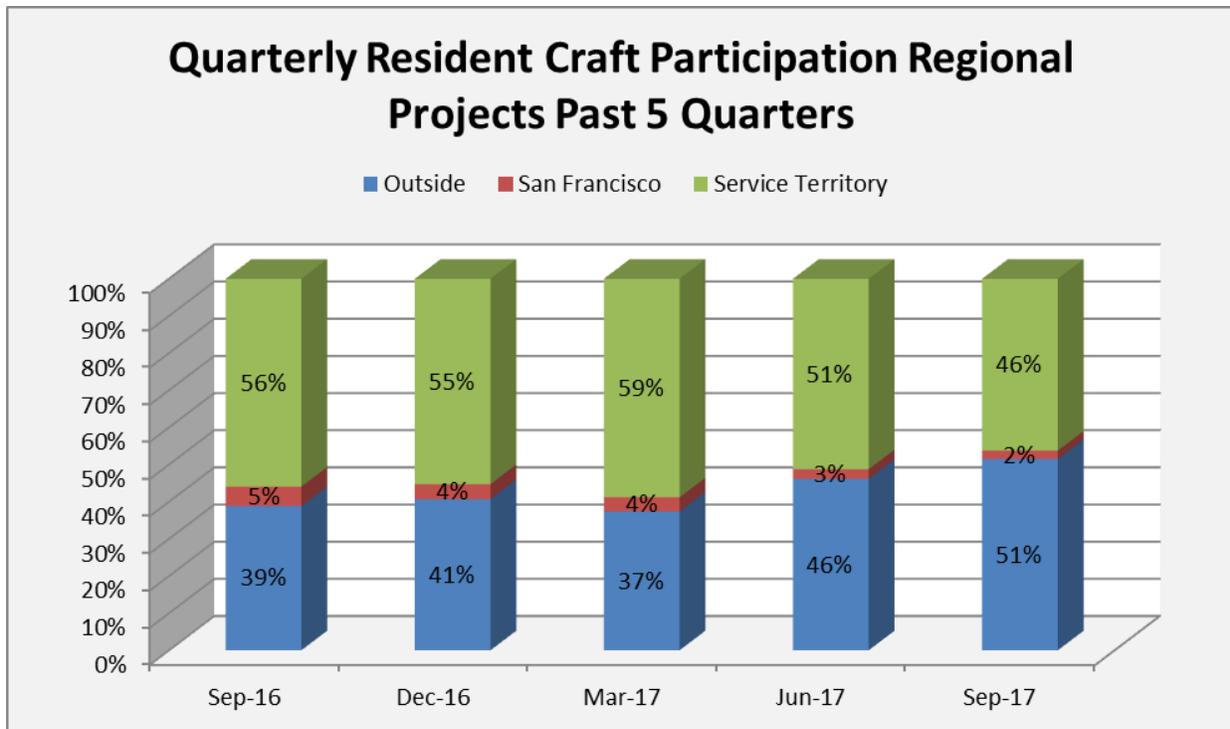
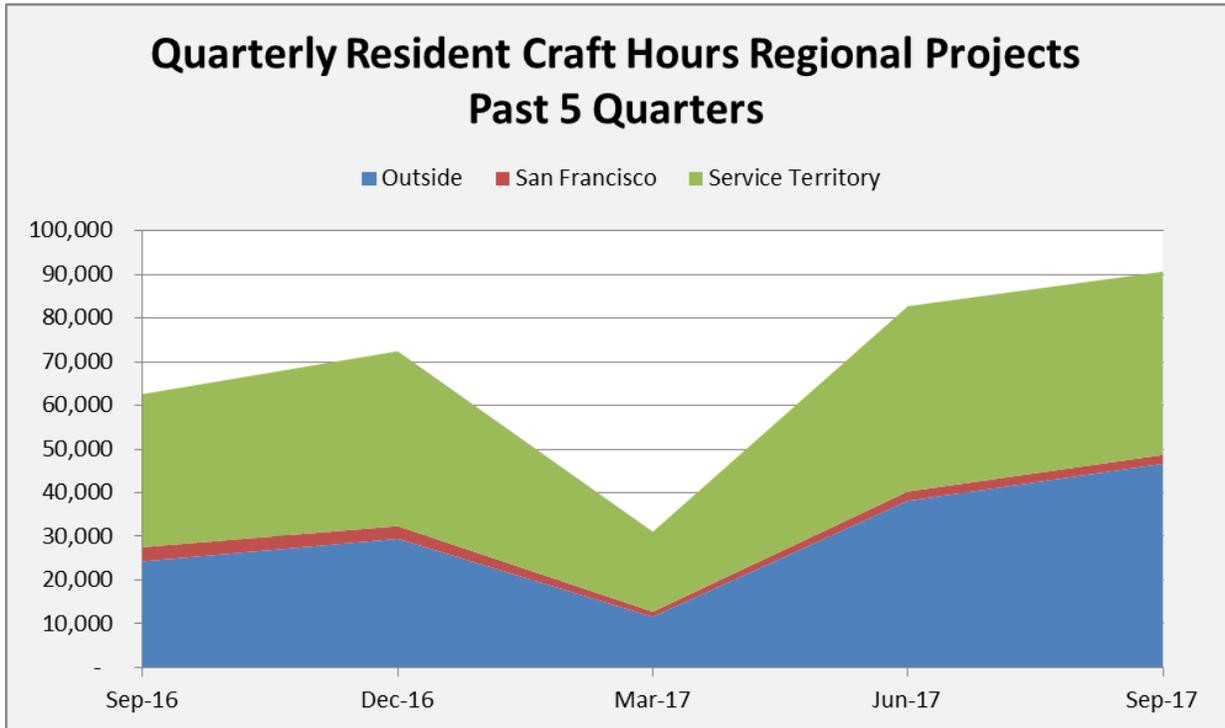
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 38 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through September 30,2017					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,479,912	\$ 54,256,118	18.5%	2,746	711
Contra Costa	1,051,118	\$ 40,516,975	13.1%	1,814	505
San Mateo	787,707	\$ 31,343,498	9.8%	1,216	379
San Joaquin	746,968	\$ 27,634,974	9.3%	1,150	359
<b>San Francisco</b>	<b>549,812</b>	<b>\$ 20,418,020</b>	<b>6.9%</b>	<b>1,141</b>	<b>264</b>
Santa Clara	453,780	\$ 18,409,614	5.7%	1,204	218
Solano	398,986	\$ 15,699,017	5.0%	753	192
Stanislaus	347,453	\$ 12,585,681	4.3%	583	167
Sacramento	333,979	\$ 13,064,868	4.2%	558	161
Butte	205,196	\$ 8,074,263	2.6%	119	99
Sonoma	171,339	\$ 6,841,267	2.1%	313	82
Tuolumne	91,263	\$ 3,492,192	1.1%	93	44
Calaveras	90,734	\$ 3,967,576	1.1%	78	44
Placer	83,799	\$ 3,382,677	1.0%	126	40
El Dorado	82,001	\$ 3,400,407	1.0%	84	39
Yolo	67,637	\$ 2,610,830	0.8%	89	33
Los Angeles	66,915	\$ 2,857,307	0.8%	140	32
Shasta	63,420	\$ 2,777,659	0.8%	55	30
Clark	62,651	\$ 2,769,505	0.8%	66	30
Napa	55,353	\$ 2,432,143	0.7%	75	27
<b>Top 20 Counties by Hours</b>	<b>7,190,023</b>	<b>\$ 276,534,591</b>	<b>89.8%</b>	<b>12,403</b>	<b>3,456</b>
All Other Counties	812,629	\$ 35,077,800	10.2%	991	391
<b>WSIP-PLA Total</b>	<b>8,002,652</b>	<b>\$ 311,612,391</b>	<b>100.0%</b>	<b>13,394</b>	<b>3,847</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through September 30, 2017					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	94,844	\$ 3,290,737	17.1%	196	46
94124	86,480	\$ 3,244,162	15.6%	230	42
94110	81,795	\$ 2,767,532	14.8%	164	39
94116	68,435	\$ 3,267,365	12.3%	78	33
94134	42,311	\$ 1,287,217	7.6%	108	20
94122	30,339	\$ 1,324,028	5.5%	60	15
94121	24,625	\$ 971,172	4.4%	44	12
94103	24,467	\$ 753,957	4.4%	35	12
94127	19,677	\$ 699,204	3.6%	21	9
94102	8,640	\$ 384,054	1.6%	20	4
94132	8,509	\$ 334,640	1.5%	31	4
94118	8,394	\$ 411,471	1.5%	20	4
94131	8,101	\$ 307,169	1.5%	21	4
94117	7,957	\$ 200,923	1.4%	17	4
94107	7,730	\$ 288,935	1.4%	20	4
94133	5,346	\$ 189,842	1.0%	8	3
94114	4,889	\$ 189,578	0.9%	13	2
94164	3,451	\$ 98,256	0.6%	2	2
94109	3,403	\$ 100,513	0.6%	19	2
94108	3,348	\$ 71,658	0.6%	8	2
94130	3,285	\$ 69,968	0.6%	10	2
94115	1,773	\$ 51,839	0.3%	22	1
94188	1,391	\$ 33,477	0.3%	5	1
94142	1,318	\$ 57,607	0.2%	7	1
94111	661	\$ 14,669	0.1%	3	0
94166	638	\$ 30,298	0.1%	1	0
94104	523	\$ 13,179	0.1%	2	0
94123	496	\$ 24,939	0.1%	2	0
94129	447	\$ 13,106	0.1%	1	0
94140	288	\$ 11,589	0.1%	1	0
94119	255	\$ 7,976	0.0%	1	0
94147	162	\$ 4,785	0.0%	1	0
94105	141	\$ 2,599	0.0%	1	0
94125	29	\$ 994	0.0%	2	0
94158	16	\$ 362	0.0%	2	0
<b>Total</b>	<b>549,812</b>	<b>\$ 20,418,020</b>	<b>100%</b>	<b>1,141</b>	<b>264</b>
<b>WSIP-PLA Total</b>	<b>8,002,652</b>	<b>\$ 311,612,391</b>	<b>-</b>	<b>13,394</b>	<b>3,847</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through September 30, 2017							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
OPERATING ENGINEER (HEAVY AND H	1,012,871	18,487	416,790	577,595	1.8%	41.1%	57.0%
CARPENTER AND RELATED TRADES	704,528	78,122	306,799	319,608	11.1%	43.5%	45.4%
TUNNEL WORKER (LABORER)	612,964	11,171	249,754	352,040	1.8%	40.7%	57.4%
OPERATING ENGINEER	570,627	46,969	219,610	304,048	8.2%	38.5%	53.3%
ELECTRICIAN	448,049	23,949	265,105	158,995	5.3%	59.2%	35.5%
PLUMBER	415,181	80,894	144,627	189,660	19.5%	34.8%	45.7%
IRON WORKER	262,294	19,657	98,660	143,977	7.5%	37.6%	54.9%
PILE DRIVER (CARPENTER)	167,753	6,526	50,596	110,632	3.9%	30.2%	65.9%
PAINTER	143,786	8,977	18,767	116,043	6.2%	13.1%	80.7%
CEMENT MASON	120,865	5,791	56,191	58,883	4.8%	46.5%	48.7%
BOILERMAKER-BLACKSMITH	119,080	48	27,196	91,836	0.0%	22.8%	77.1%
BUILDING/CONSTRUCTION INSPECTOR	71,748	3,943	11,828	55,977	5.5%	16.5%	78.0%
PILE DRIVER (OPERATING ENGINEER	51,487	499	8,554	42,434	1.0%	16.6%	82.4%
ROOFER	50,016	3,113	28,665	18,238	6.2%	57.3%	36.5%
FIELD SURVEYOR	20,433	1,342	4,131	14,960	6.6%	20.2%	73.2%
SHEET METAL WORKER	16,450	1,765	9,378	5,308	10.7%	57.0%	32.3%
DRYWALL INSTALLER/LATHER (CARP	11,886	1,435	3,041	7,411	12.1%	25.6%	62.4%
BRICKLAYER, BLOCKLAYER	8,574	82	4,397	4,095	1.0%	51.3%	47.8%
ELECTRICAL UTILITY LINEMAN	6,797	-	214	6,582	0.0%	3.1%	96.9%
GLAZIER	4,331	1,018	1,424	1,890	23.5%	32.9%	43.6%
PLASTERER	3,750	1,270	958	1,523	33.9%	25.5%	40.6%
OPERATING ENGINEER (SPECIAL SING	2,637	47	1,691	899	1.8%	64.1%	34.1%
PLASTER TENDER	1,281	882	237	163	68.8%	18.5%	12.7%
SHEET METAL WORKER (HVAC)	1,205	277	727	202	22.9%	60.3%	16.8%
BRICK TENDER	827	287	78	462	34.7%	9.4%	55.9%
PARKING AND HIGHWAY IMPROVEME	718	-	384	334	0.0%	53.5%	46.5%
ASBESTOS WORKER, HEAT AND FRO	507	-	268	239	0.0%	52.9%	47.1%
CARPET, LINOLEUM, SOFT FLOOR LA	354	6	89	259	1.7%	25.1%	73.2%
TILE SETTER	351	-	344	7	0.0%	98.0%	2.0%
TILE FINISHER	277	-	237	40	0.0%	85.6%	14.4%
METAL ROOFING SYSTEMS INSTALLE	201	-	201	-	0.0%	100.0%	0.0%
TERRAZZO WORKER	199	-	-	199	0.0%	0.0%	100.0%
MARBLE FINISHER	40	-	40	-	0.0%	100.0%	0.0%
TERRAZZO FINISHER	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticeable</b>	<b>4,832,067</b>	<b>316,551</b>	<b>1,930,981</b>	<b>2,584,535</b>	<b>6.6%</b>	<b>40.0%</b>	<b>53.4%</b>
LABORER	2,717,581	205,288	1,253,115	1,259,178	7.6%	46.1%	46.3%
<b>Non-Apprenticeable</b>							
TEAMSTER	129,383	9,403	72,662	47,318	7.3%	56.2%	36.6%
DRIVER (ON/OFF-HAULING TO/FROM C	97,641	17,087	64,752	15,802	17.5%	66.3%	16.2%
OPERATING ENGINEER (HEAVY AND H	95,208	-	45,352	49,856	0.0%	47.6%	52.4%
TUNNEL/UNDERGROUND (OPERATING	79,393	70	45,067	34,257	0.1%	56.8%	43.1%
ASBESTOS REMOVAL WORKER (LABO	17,057	887	2,270	13,900	5.2%	13.3%	81.5%
TUNNEL/UNDERGROUND (OPERATING	13,201	-	9,364	3,837	0.0%	70.9%	29.1%
WATER WELL DRILLER	12,313	-	7,536	4,777	0.0%	61.2%	38.8%
LANDSCAPE MAINTENANCE LABOREF	1,691	360	1,110	221	21.3%	65.6%	13.1%
TREE TRIMMER (HIGH VOLTAGE LINE	1,422	32	1,191	199	2.3%	83.8%	14.0%
TELECOMMUNICATIONS TECHNICIAN	1,160	-	1,088	72	0.0%	93.8%	6.2%
STEEL ERECTOR AND FABRICATOR (C	1,123	-	282	841	0.0%	25.1%	74.9%
TRAFFIC CONTROL/LANE CLOSURE (L	1,001	-	789	212	0.0%	78.8%	21.2%
DREDGER OPERATING ENGINEER	831	-	-	831	0.0%	0.0%	100.0%
OPERATING ENGINEER (BUILDING CO	635	133	229	273	20.9%	36.1%	43.0%
SLURRY SEAL WORKER	592	-	321	271	0.0%	54.3%	45.7%
PARKING AND HIGHWAY IMPROVEME	265	-	167	98	0.0%	63.0%	37.0%
IRONWORKER (DB)	80	-	-	80	0.0%	0.0%	100.0%
TEAMSTER (SPECIAL SINGLE SHIFT R	11	-	-	11	0.0%	0.0%	100.0%
<b>Total Non-Apprenticeable</b>	<b>453,004</b>	<b>27,972</b>	<b>252,178</b>	<b>172,853</b>	<b>6.2%</b>	<b>55.7%</b>	<b>38.2%</b>
<b>Total WSIP PLA</b>	<b>8,002,652</b>	<b>549,812</b>	<b>3,436,274</b>	<b>4,016,566</b>	<b>6.9%</b>	<b>42.9%</b>	<b>50.2%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through September 30, 2017							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replacement Project	1,189,323	5,525	500,471	683,327	0.5%	42.1%	57.5%
WD-2596 - Harry Tracy Water Treatment Plant Long	1,013,917	63,555	381,991	568,371	6.3%	37.7%	56.1%
WD-2581 - New Irvington Tunnel	730,584	3,538	335,744	391,302	0.5%	46.0%	53.6%
WD-2531 - Bay Division Pipelines Reliability Upgrad	583,318	18,599	335,644	229,074	3.2%	57.5%	39.3%
WD-2601 - Crystal Springs / San Andreas Transmis	489,176	25,360	194,232	269,583	5.2%	39.7%	55.1%
WD-2582 - Sunol Valley Water Treatment Plant and	462,447	11,320	202,938	248,189	2.4%	43.9%	53.7%
WD-2542 - Bay Division Pipeline No. 5 - Peninsula	288,044	2,888	135,042	150,114	1.0%	46.9%	52.1%
CS-936 - Advanced Meter Infrastructure	227,027	72,108	84,621	70,298	31.8%	37.3%	31.0%
WD-2541 - Bay Division Pipeline No. 5 - East Bay F	208,255	14,163	86,775	107,317	6.8%	41.7%	51.5%
WD-2539 - University Mound Reservoir North Basin	187,032	50,004	44,847	92,181	26.7%	24.0%	49.3%
WD-2627R - Sutro Reservoir Rehabilitation and Seis	154,545	49,239	39,346	65,960	31.9%	25.5%	42.7%
HH-935C - San Joaquin Pipeline System - Eastern	144,012	83	82,510	61,420	0.1%	57.3%	42.6%
DB-116 - Tesla Treatment Facility	141,910	2,062	96,192	43,656	1.5%	67.8%	30.8%
WD-2668 - Regional Groundwater Storage and Recd	138,764	23,107	73,145	42,512	16.7%	52.7%	30.7%
WD-2629 - Seismic Upgrade of Bay Division Pipelin	135,960	567	57,385	78,009	0.4%	42.2%	57.4%
WD-2552 - Alameda Siphon No. 4 Project	129,485	1,450	61,738	66,297	1.1%	47.7%	51.2%
WD-2555 - Crystal Springs Pipeline No.2 Replacem	127,805	34,923	35,415	57,467	27.3%	27.7%	45.0%
WD-2498 - New Crystal Springs Bypass (Polhemus	117,860	6,825	61,288	49,748	5.8%	52.0%	42.2%
WD-2652 - Bioregional Habitat Restoration, San An	110,655	2,810	49,991	57,854	2.5%	45.2%	52.3%
WD-2548 - Lake Merced Pump Station Essential Up	101,050	23,185	27,768	50,098	22.9%	27.5%	49.6%
HH-935B - San Joaquin Pipeline System - Western	100,492	426	45,319	54,747	0.4%	45.1%	54.5%
WD-2591 - Lower Crystal Springs Dam Improvemen	98,656	5,022	57,594	36,040	5.1%	58.4%	36.5%
WD-2729 - Fish Passage Facilities Within The Alan	86,755	822	37,098	48,835	0.9%	42.8%	56.3%
HH-935A - San Joaquin Pipeline System - Crossove	84,483	158	47,626	36,699	0.2%	56.4%	43.4%
WD-2513 - San Andreas Pipeline No.3 Installation P	83,503	6,294	30,974	46,234	7.5%	37.1%	55.4%
WD-2575 - San Antonio Backup Pipeline	75,263	9,125	33,899	32,239	12.1%	45.0%	42.8%
WD-2504 - Stanford Heights Reservoir Seismic Retr	74,300	11,120	19,925	43,256	15.0%	26.8%	58.2%
WD-2501 - Alemany Pump Station	74,085	7,565	28,862	37,658	10.2%	39.0%	50.8%
WD-2727 - Peninsula Pipeline Seismic Upgrade	69,772	13,623	23,821	32,329	19.5%	34.1%	46.3%
WD-2543 - North University Mound System Upgrade	53,265	10,250	18,206	24,809	19.2%	34.2%	46.6%
WD-2573 - Pulgas Balancing Reservoir Structural R	50,367	5,166	25,129	20,073	10.3%	49.9%	39.9%
WD-2621R - San Francisco Groundwater Supply W	49,538	10,584	12,147	26,807	21.4%	24.5%	54.1%
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	47,910	4,908	15,264	27,738	10.2%	31.9%	57.9%
WD-2641R - Habitat Reserve Program, Homestead	44,018	7,286	11,135	25,597	16.6%	25.3%	58.2%
WD-2564 - Harry Tracy Water Treatment Plant - Sh	43,049	7,220	12,879	22,950	16.8%	29.9%	53.3%
WD-2469 - Forest Knolls Pump Station and Storage	26,553	3,844	8,582	14,127	14.5%	32.3%	53.2%
WD-2666 - Bioregional Habitat Restoration, Sheep C	23,492	46	16,571	6,876	0.2%	70.5%	29.3%
WD-2623 - Harding Park Recycled Water Project	22,727	4,530	13,464	4,734	19.9%	59.2%	20.8%
WD-2651R - Peninsula 2011 Watershed Compensa	22,569	557	11,609	10,403	2.5%	51.4%	46.1%
WD-2529 - Noe Valley Transmission Main - Phase	22,511	3,918	7,931	10,662	17.4%	35.2%	47.4%
WD-2665 - Bay Division Pipeline Reliability Upgrade	21,967	341	7,653	13,974	1.6%	34.8%	63.6%
WD-2654R - Peninsula Vegetation Removal	21,415	4,024	7,423	9,968	18.8%	34.7%	46.5%
WD-2556 - Baden and San Pedro Valve Lot Improve	19,939	4,570	10,634	4,735	22.9%	53.3%	23.7%
WD-2798 - San Francisco Westside Recycled Wat	18,009	6,149	5,303	6,558	34.1%	29.4%	36.4%
WD-2622 - San Francisco Groundwater Supply Pipe	17,782	4,360	3,453	9,969	24.5%	19.4%	56.1%
WD-2566 - San Antonio Pump Station Upgrades Pr	14,916	101	12,105	2,711	0.7%	81.1%	18.2%
HH-914R - Roselle Crossover Improvements	12,859	0	8,819	4,040	0.0%	68.6%	31.4%
HH-953 - Tesla Portal Protection	11,512	4,989	4,453	2,071	43.3%	38.7%	18.0%
WD-2511 - Standby Power Facilities, Various Locat	11,275	136	6,599	4,541	1.2%	58.5%	40.3%
WD-2640 - Bioregional Habitat Restoration	10,621	1,259	4,182	5,180	11.9%	39.4%	48.8%
WD-2600 - Regional Groundwater Storage and Recd	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2589 - Supervisory Control and Data Acquisiti	1,498	113	242	1,144	7.6%	16.1%	76.3%
WD-2809 - San Francisco Groundwater Supply Pha	296	0	0	296	0.0%	0.0%	100.0%
WD-2776 - San Francisco Westside Recycled Wat	0	0	0	0	0.0%	0.0%	0.0%
<b>Total WSIP PLA</b>	<b>8,002,652</b>	<b>549,812</b>	<b>3,436,274</b>	<b>4,016,566</b>	<b>6.9%</b>	<b>42.9%</b>	<b>50.2%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

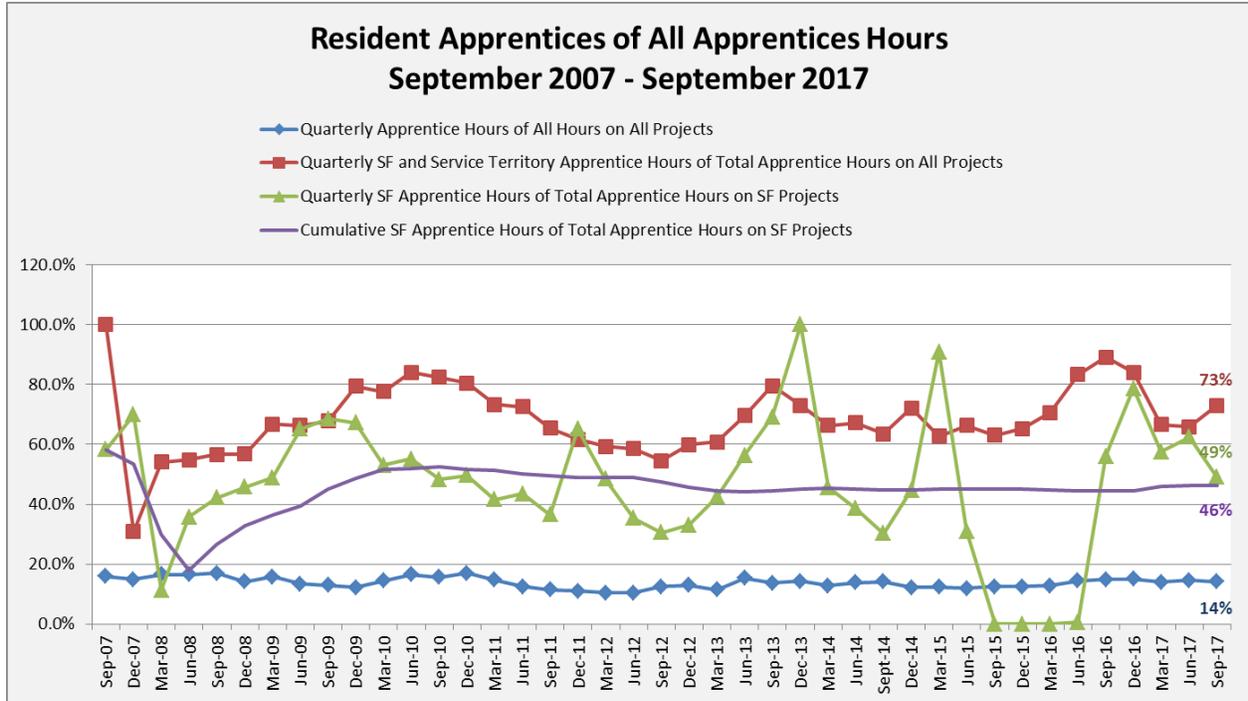
Through the end of the current quarter, 13.4% of craft hours in apprenticeable trades have been worked by apprentices. 17% of apprentice hours were worked by San Francisco residents and 55% were worked by residents of the Regional Service Territory, or 72% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SFPUC ST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A - OPERATING ENGINEER (HEAVY AND HIGHWAY	1,012,871	20,663	3,912	11,459	5,293	2.0%	0.4%	1.1%	18.3%	55.5%	25.6%
A - CARPENTER AND RELATED TRADES	704,528	109,506	27,905	51,403	30,198	15.5%	4.0%	7.3%	25.5%	46.9%	27.6%
A - TUNNEL WORKER (LABORER)	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - OPERATING ENGINEER	570,627	175,010	25,893	78,991	70,127	30.7%	4.5%	13.8%	14.8%	45.1%	40.1%
A - ELECTRICIAN	448,049	82,417	9,048	57,447	15,922	18.4%	2.0%	12.8%	11.0%	69.7%	19.3%
A - PLUMBER	415,181	114,176	32,748	56,070	25,357	27.5%	7.9%	13.5%	28.7%	49.1%	22.2%
A - IRON WORKER	262,294	57,918	12,179	24,846	20,894	22.1%	4.6%	9.5%	21.0%	42.9%	36.1%
A - PILE DRIVER (CARPENTER)	167,753	15,286	4,451	6,608	4,228	9.1%	2.7%	3.9%	29.1%	43.2%	27.7%
A - PAINTER	143,786	24,875	1,809	6,702	16,364	17.3%	1.3%	4.7%	7.3%	26.9%	65.8%
A - CEMENT MASON	120,865	5,547	3,608	787	1,152	4.6%	3.0%	0.7%	65.0%	14.2%	20.8%
A - BOILERMAKER-BLACKSMITH	119,080	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - BUILDING/CONSTRUCTION INSPECTOR AND FIE	71,748	2,290	5	1,242	1,043	3.2%	0.0%	1.7%	0.2%	54.2%	45.6%
A - PILE DRIVER (OPERATING ENGINEER - HEAVY	51,487	30	-	-	30	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%
A - ROOFER	50,016	12,507	1,568	6,249	4,690	25.0%	3.1%	12.5%	12.5%	50.0%	37.5%
A - FIELD SURVEYOR	20,433	634	8	67	559	3.1%	0.0%	0.3%	1.3%	10.6%	88.2%
A - SHEET METAL WORKER	16,450	1,806	16	931	860	11.0%	0.1%	5.7%	0.9%	51.5%	47.6%
A - DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	473	60	283	130	4.0%	0.5%	2.4%	12.7%	59.8%	27.5%
A - BRICKLAYER, BLOCKLAYER	8,574	2,682	82	573	2,027	31.3%	1.0%	6.7%	3.1%	21.3%	75.6%
A - ELECTRICAL UTILITY LINEMAN	6,797	79	-	79	-	1.2%	0.0%	1.2%	0.0%	100.0%	0.0%
A - GLAZIER	4,331	564	402	20	142	13.0%	9.3%	0.5%	71.3%	3.5%	25.2%
A - PLASTERER	3,750	347	136	-	211	9.3%	3.6%	0.0%	39.2%	0.0%	60.8%
A - OPERATING ENGINEER (SPECIAL SINGLE AND	2,637	1,162	-	1,047	115	44.1%	0.0%	39.7%	0.0%	90.1%	9.9%
A - PLASTER TENDER	1,281	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - SHEET METAL WORKER (HVAC)	1,205	1,041	277	597	168	86.4%	22.9%	49.5%	26.6%	57.3%	16.1%
A - BRICK TENDER	827	24	24	-	-	2.9%	2.9%	0.0%	100.0%	0.0%	0.0%
A - PARKING AND HIGHWAY IMPROVEMENT PAINT	718	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - ASBESTOS WORKER, HEAT AND FROST INSUL	507	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - CARPET, LINOLEUM, SOFT FLOOR LAYER	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - TILE SETTER	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	100.0%	0.0%
A - TILE FINISHER	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	100.0%
A - METAL ROOFING SYSTEMS INSTALLER	201	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - TERRAZZO WORKER	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - MARBLE FINISHER	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - TERRAZZO FINISHER	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sub-Total Apprenticeable	4,832,067	631,474	124,168	306,678	200,628	13.1%	2.6%	6.3%	19.7%	48.6%	31.8%
A - LABORER	2,717,581	380,207	44,647	256,811	78,749	14.0%	1.6%	9.4%	11.7%	67.5%	20.7%
A-Operating Engineer (COMBINED)	1,637,622	196,865	29,804	91,496	75,565	12.0%	1.8%	5.6%	15.1%	46.5%	38.4%
Total Apprenticeable	7,549,648	1,011,680	168,815	563,489	279,377	13.4%	2.2%	7.5%	16.7%	55.7%	27.6%
Total Non-Apprenticeable	453,004										
Total WSIP - Covered by PLA	8,002,652										

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For the three months ending September 30, 2017, 49% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



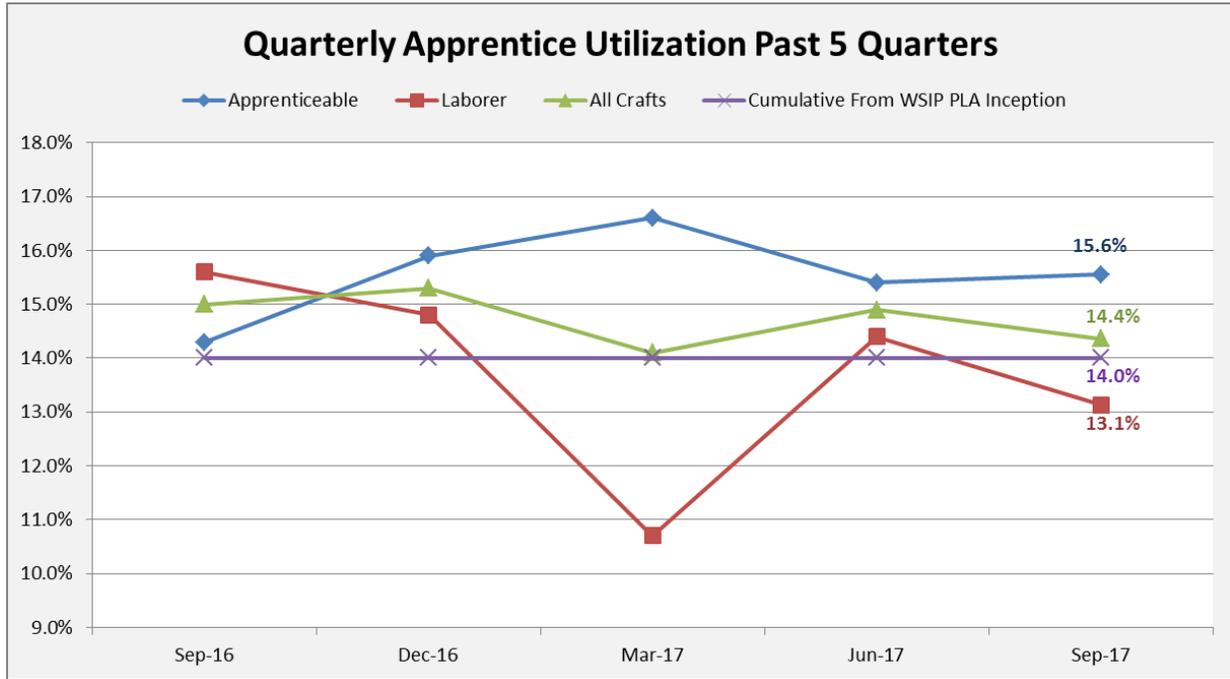
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 14%. This is slightly higher than the 13.4% mentioned in the *Apprentice Utilization by Craft* chart (page 20) because the chart below reflects the Total Apprenticeable and Laborer Hours which is slightly lower than the Total Craft Hours used to calculate the percentage for crafts.

WSIP - Covered by PLA Apprentice Utilization By Project Inception Through September 30, 2017											
Project	Apprentice Utilization By Project										
	All Workers Hours				Apprentice Hours			Apprentice Utilization %			
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - Advanced Meter Infr	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
WD-2798 - San Francisco Water	18,009	3,274	-	14,735	18,009	1,046	2,871	3,917	32.0%	19.5%	21.7%
WD-2498 - New Crystal Springs	117,860	51,381	54,937	11,543	62,923	12,361	5,252	17,612	24.1%	45.5%	28.0%
WD-2504 - Stanford Heights Facility	74,300	40,450	-	33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2539 - University Mound	187,032	106,332	1,199	79,502	185,834	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2573 - Pulgas Balancing	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2627R - Sutro Reservoir Facility	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2641R - Habitat Reserve	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
WD-2729 - Fish Passage Facility	86,755	53,470	4,923	28,362	81,832	10,433	2,971	13,404	19.5%	10.5%	16.4%
WD-2668 - Regional Groundwater	138,764	89,413	996	48,355	137,768	17,148	6,232	23,379	19.2%	12.9%	17.0%
HH-914R - Roselle Crossover	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
DB-116 - Tesla Treatment Facility	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2469 - Forest Knolls Pump	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2582 - Sunol Valley Water	462,447	293,884	13,009	155,554	449,438	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2596 - Harry Tracy Water	1,013,917	674,623	40,826	298,468	973,091	108,428	35,995	144,423	16.1%	12.1%	14.8%
WD-2651R - Peninsula 2011	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2589 - Supervisory Control	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2640 - Bioregional Habitat	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2552 - Alameda Siphon Installation	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2555 - Crystal Springs Facility	127,805	49,126	9,741	68,938	118,064	7,559	5,394	12,953	15.4%	7.8%	11.0%
WD-2548 - Lake Merced Pump	101,050	72,282.50	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
WD-2727 - Peninsula Pipeline	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2575 - San Antonio Back	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2621R - San Francisco Canal	49,538	30,206	-	19,332	49,538	4,225	1,854	6,079	14.0%	9.6%	12.3%
WD-2513 - San Andreas Pipeline	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2501 - Alemany Pump Station	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2601 - Crystal Springs / Siphon	489,176	300,936	57,401	130,839	431,775	37,806	10,916	48,722	12.6%	8.3%	11.3%
WD-2568 - BDPL Nos. 3&4 Canal	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2591 - Lower Crystal Springs	98,656	40,891	1,323	56,442	97,333	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2541 - Bay Division Pipeline	208,255	89,103	12,808	106,345	195,448	10,026	10,170	20,196	11.3%	9.6%	10.3%
WD-2629 - Seismic Upgrade	135,960	74,264	1,729	59,968	134,232	8,356	13,525	21,881	11.3%	22.6%	16.3%
WD-2551 - Calaveras Dam Reservoir	1,189,323	654,332	30,860	504,131	1,158,463	72,901	87,143	160,044	11.1%	17.3%	13.8%
HH-953 - Tesla Portal Protection	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2566 - San Antonio Pump	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
HH-935A - San Joaquin Pipeline	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935C - San Joaquin Pipeline	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2564 - Harry Tracy Water	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2623 - Harding Park Recreation	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2556 - Baden and San Pablo	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2531 - Bay Division Pipeline	583,318	164,684	339,239	79,394	244,078	14,153	18,238	32,391	8.6%	23.0%	13.3%
WD-2542 - Bay Division Pipeline	288,044	90,616	31,498	165,930	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2652 - Bioregional Habitat	110,655	19,428	3,086	88,140	107,568	1,492	19,170	20,661	7.7%	21.7%	19.2%
HH-935B - San Joaquin Pipeline	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2511 - Standby Power Facility	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2581 - New Irvington Tunnel	730,584	546,878	99,798	83,908	630,786	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2622 - San Francisco Groundwater	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2543 - North University Mound	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2665 - Bay Division Pipeline	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2666 - Bioregional Habitat	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2654R - Peninsula Vegetation	21,415	4,170	189	17,057	21,226	8	1,444	1,452	0.2%	8.5%	6.8%
WD-2529 - Noe Valley Transmittance	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2600 - Regional Groundwater	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2809 - San Francisco Groundwater	296	107	-	189	296	-	-	-	0.0%	0.0%	0.0%
WD-2776 - San Francisco Water	-	-	-	-	-	-	-	-	0.0%	0.0%	0.0%
<b>WSIP - Covered by PLA (53 Projects)</b>	<b>8,002,652</b>	<b>4,832,067</b>	<b>453,004</b>	<b>2,717,581</b>	<b>7,549,648</b>	<b>631,476</b>	<b>380,205</b>	<b>1,011,680</b>	<b>14.0%</b>	<b>14.0%</b>	<b>14.0%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending September 30, 2017. The Laborers continue to work a considerable amount of hours and are highlighted below. Percentages compared to last quarter are as follows; the Laborers Apprentice Utilization decreased by 1.3%, the Apprenticeable trades increased by 0.2% , and the Laborer and Apprenticeable crafts combined (All Crafts) decreased by 0.5%. However, the overall cumulative percentage has remained the same.



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**Jobs Training and Opportunities Program (JTOP)**

As of September 30, 2017, the SFPUC and City staff has referred 643 apprentices and 360 journeypersons to WSIP PLA-covered projects from our community-based partners in Job Training Programs and through the Labor Unions. These 1003 individuals represent 11.7% of the total hours worked and 9.0% of the wages earned.\*

WSIP-PLA Referred Workers By Job Training and Opportunities Program						
Inception Through September 30, 2017						
Referred Apprentice Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Apprentices	% Of Total Apprentice Hours	% Of Total Apprentice Wages
CityBuild Academy	51	38,196	\$ 944,139	2.8%	3.8%	3.6%
CityBuild Referral Services	75	34,715	\$ 904,344	4.1%	3.4%	3.4%
Cypress Mandela Training Center, Inc.	54	79,337	\$ 1,958,613	3.0%	7.8%	7.4%
Helmets to Hardhats	1	3,339	\$ 80,910	0.1%	0.3%	0.3%
Job Corps	1	4,328	\$ 129,666	0.1%	0.4%	0.5%
JobTrain's Project Build	74	91,267	\$ 2,177,927	4.1%	9.0%	8.2%
Northern California Construction and Training, Inc.	7	7,256	\$ 158,831	0.4%	0.7%	0.6%
San Joaquin County Office of Ed. YouthBuild	11	17,142	\$ 369,514	0.6%	1.7%	1.4%
SFPUC	62	55,548	\$ 1,448,864	3.4%	5.5%	5.5%
Sponser	6	32,394	\$ 893,470	0.3%	3.2%	3.4%
Union	301	223,798	\$ 5,774,894	16.6%	22.1%	21.7%
<b>Total Referred Apprentice Workers</b>	<b>643</b>	<b>587,317</b>	<b>\$ 14,841,173</b>	<b>35.4%</b>	<b>58.1%</b>	<b>55.9%</b>
Non-Referred Apprentices	1,174	424,364	\$ 11,729,837	64.6%	41.9%	44.1%
<b>Total Apprentices</b>	<b>1,817</b>	<b>1,011,680</b>	<b>\$ 26,571,010</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Referred Journeyman Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Journey Level Workers	% Of Total Journey Hours	% Of Total Journey Wages
CityBuild Academy	11	8,399	\$ 281,284	0.1%	0.1%	0.1%
CityBuild Referral Services	82	53,122	\$ 2,254,098	0.8%	0.8%	0.8%
Cypress Mandela Training Center, Inc.	16	16,896	\$ 562,105	0.2%	0.2%	0.2%
Helmets to Hardhats	1	13	\$ 498	0.0%	0.0%	0.0%
Job Corps	1	37	\$ 1,489	0.0%	0.0%	0.0%
JobTrain's Project Build	15	18,274	\$ 569,742	0.1%	0.3%	0.2%
Northern California Construction and Training, Inc.	1	1,640	\$ 42,809	0.0%	0.0%	0.0%
San Joaquin County Office of Ed. YouthBuild	1	312	\$ 7,924	0.0%	0.0%	0.0%
SFPUC	32	44,417	\$ 1,536,726	0.3%	0.6%	0.5%
Sponser	2	7,285	\$ 274,608	0.0%	0.1%	0.1%
Union	198	204,181	\$ 7,694,875	1.9%	2.9%	2.7%
<b>Total Referred Journeyman Workers</b>	<b>360</b>	<b>354,573</b>	<b>\$ 13,226,160</b>	<b>3.4%</b>	<b>5.1%</b>	<b>4.6%</b>
Non-Referred Journeypersons	10,257	6,636,398	\$ 271,815,221	96.6%	94.9%	95.4%
<b>Total Journeypersons</b>	<b>10,617</b>	<b>6,990,971</b>	<b>\$ 285,041,381</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Total Workforce						
<b>Total Referred Workers ( J+A )</b>	<b>902</b>	<b>941,890</b>	<b>\$ 28,067,333</b>	<b>7.4%</b>	<b>11.8%</b>	<b>9.0%</b>
All Non-Referred Workers						
All Non-Referred Workers	11,286	7,060,762	\$ 283,545,058	92.6%	88.2%	91.0%
<b>Total Workforce</b>	<b>12,188</b>	<b>8,002,652</b>	<b>\$ 311,612,391</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Note: Because of the statistics method's distinction, the result of the worker count in this report is differ from other reports.

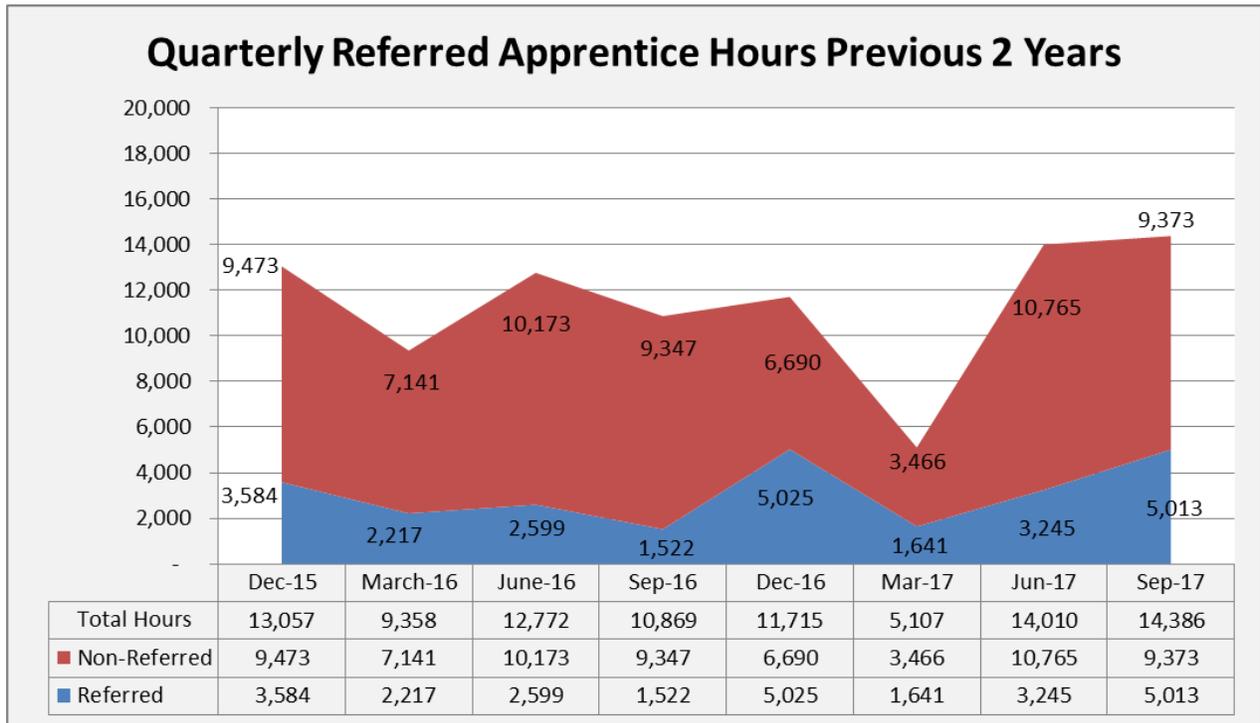
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through September 30, 2017									
Project	Total Craft Hours			Referred Hours			Referred Utilization %		
	Total Hours	Total Apprentice Hours	Total Journey Hours	Referred Apprentice Hours	Referred Journey Hours	Total Referred Hours	Referred Apprentice %	Referred Journey %	Total Referred %
WD-2551 - Calaveras Dam Replacement	1,189,323	160,044	1,029,279	123,495	87,818	211,312	77.2%	8.5%	17.8%
WD-2596 - Harry Tracy Water Treatment	1,013,917	144,423	869,494	81,895	37,310	119,204	56.7%	4.3%	11.8%
WD-2581 - New Irvington Tunnel	730,584	51,750	678,834	37,436	15,218	52,653	72.3%	2.2%	7.2%
WD-2531 - Bay Division Pipelines Reliab	583,318	32,391	550,927	27,949	26,451	54,400	86.3%	4.8%	9.3%
WD-2601 - Crystal Springs / San Andrea	489,176	48,722	440,454	41,550	27,188	68,739	85.3%	6.2%	14.1%
WD-2582 - Sunol Valley Water Treatmen	462,447	68,616	393,832	27,121	8,367	35,488	39.5%	2.1%	7.7%
WD-2542 - Bay Division Pipeline No. 5 -	288,044	26,210	261,834	20,197	4,770	24,967	77.1%	1.8%	8.7%
CS-936 - Advanced Meter Infrastructure	227,027	79,373	147,654	4,405	20,110	24,515	5.5%	13.6%	10.8%
WD-2541 - Bay Division Pipeline No. 5 -	208,255	20,196	188,059	10,927	5,850	16,777	54.1%	3.1%	8.1%
WD-2539 - University Mound Reservoir N	187,032	30,350	156,682	14,817	12,887	27,703	48.8%	8.2%	14.8%
WD-2627R - Sutto Reservoir Rehabilitat	154,545	20,639	133,906	17,701	6,603	24,304	85.8%	4.9%	15.7%
HH-935C - San Joaquin Pipeline System	144,012	17,263	126,749	14,185	8,693	22,877	82.2%	6.9%	15.9%
DB-116 - Tesla Treatment Facility	141,910	26,991	114,920	7,450	1,884	9,334	27.6%	1.6%	6.6%
WD-2668 - Regional Groundwater Stora	138,764	23,379	115,385	8,251	12,916	21,166	35.3%	11.2%	15.3%
WD-2629 - Seismic Upgrade of Bay Divis	135,960	21,881	114,079	17,193	4,064	21,256	78.6%	3.6%	15.6%
WD-2552 - Alameda Siphon No. 4 Projec	129,485	20,720	108,765	16,749	3,356	20,105	80.8%	3.1%	15.5%
WD-2555 - Crystal Springs Pipeline No.2	127,805	12,953	114,853	12,193	11,757	23,950	94.1%	10.2%	18.7%
WD-2498 - New Crystal Springs Bypass	117,860	17,612	100,248	319	291	610	1.8%	0.3%	0.5%
WD-2652 - Bioregional Habitat Restorati	110,655	20,661	89,993	14,823	5,899	20,722	71.7%	6.6%	18.7%
WD-2548 - Lake Merced Pump Station E	101,050	10,807	90,244	3,851	10,836	14,687	35.6%	12.0%	14.5%
HH-935B - San Joaquin Pipeline System	100,492	9,304	91,188	5,797	1,923	7,719	62.3%	2.1%	7.7%
WD-2591 - Lower Crystal Springs Dam Ir	98,656	8,685	89,970	6,917	4,086	11,003	79.6%	4.5%	11.2%
WD-2729 - Fish Passage Facilities Withi	86,755	13,404	73,351	2,348	1,785	4,133	17.5%	2.4%	4.8%
HH-935A - San Joaquin Pipeline System	84,483	9,009	75,474	2,977	422	3,399	33.0%	0.6%	4.0%
WD-2513 - San Andreas Pipeline No.3 In	83,503	9,311	74,192	8,522	513	9,035	91.5%	0.7%	10.8%
WD-2575 - San Antonio Backup Pipeline	75,263	12,460	62,803	10,106	3,250	13,356	81.1%	5.2%	17.7%
WD-2504 - Stanford Heights Reservoir Se	74,300	9,891	64,409	1,336	4,241	5,577	13.5%	6.6%	7.5%
WD-2501 - Alemany Pump Station	74,085	7,625	66,460	3,275	1,175	4,450	43.0%	1.8%	6.0%
WD-2727 - Peninsula Pipeline Seismic U	69,772	11,858	57,914	8,229	5,687	13,916	69.4%	9.8%	19.9%
WD-2543 - North University Mound Syste	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2573 - Pulgas Balancing Reservoir S	50,367	7,817	42,550	1,458	1,282	2,740	18.6%	3.0%	5.4%
WD-2621R - San Francisco Groundwater	49,538	6,079	43,460	1,495	186	1,681	24.6%	0.4%	3.4%
WD-2568 - BDPL Nos. 3&4 Crossover Fa	47,910	4,538	43,373	2,020	185	2,205	44.5%	0.4%	4.6%
WD-2641R - Habitat Reserve Program, H	44,018	9,222	34,796	4,946	1,360	6,306	53.6%	3.9%	14.3%
WD-2564 - Harry Tracy Water Treatment	43,049	2,089	40,961	1,329	211	1,540	63.6%	0.5%	3.6%
WD-2469 - Forest Knolls Pump Station a	26,553	2,907	23,646	1,961	52	2,013	67.5%	0.2%	7.6%
WD-2666 - Bioregional Habitat Restorati	23,492	1,843	21,649	906	2,039	2,945	49.2%	9.4%	12.5%
WD-2623 - Harding Park Recycled Wate	22,727	1,645	21,082	1,280	3,659	4,938	77.8%	17.4%	21.7%
WD-2651R - Peninsula 2011 Watershed	22,569	3,135	19,435	2,372	3,551	5,923	75.7%	18.3%	26.2%
WD-2529 - Noe Valley Transmission Mai	22,511	1,133	21,378	1,133	263	1,396	100.0%	1.2%	6.2%
WD-2665 - Bay Division Pipeline Reliabil	21,967	1,909	20,059	1,848	1,135	2,983	96.8%	5.7%	13.6%
WD-2654R - Peninsula Vegetation Remc	21,415	1,452	19,963	1,021	1,692	2,713	70.3%	8.5%	12.7%
WD-2556 - Baden and San Pedro Valve I	19,939	2,738	17,201	2,069	98	2,167	75.6%	0.6%	10.9%
WD-2798 - San Francisco Westside Rec	18,009	3,917	14,093	1,492	840	2,332	38.1%	6.0%	12.9%
WD-2622 - San Francisco Groundwater S	17,782	2,092	15,690	1,286	1,596	2,882	61.5%	10.2%	16.2%
WD-2566 - San Antonio Pump Station U	14,916	1,798	13,119	931	-	931	51.8%	0.0%	6.2%
HH-914R - Roselle Crossover Improve	12,859	1,943	10,917	256	32	288	13.2%	0.3%	2.2%
HH-953 - Tesla Portal Protection	11,512	3,255	8,257	3,255	865	4,120	100.0%	10.5%	35.8%
WD-2511 - Standby Power Facilities, Va	11,275	626	10,649	-	4	4	0.0%	0.0%	0.0%
WD-2640 - Bioregional Habitat Restorati	10,621	1,615	9,006	1,407	75	1,482	87.1%	0.8%	13.9%
WD-2600 - Regional Groundwater Stora	6,088	296	5,792	296	-	296	100.0%	0.0%	4.9%
WD-2589 - Supervisory Control and Data	1,498	115	1,383	-	-	-	0.0%	0.0%	0.0%
WD-2809 - San Francisco Groundwater S	296	-	296	-	-	-	0.0%	0.0%	0.0%
<b>Total WSIP PLA</b>	<b>8,002,652</b>	<b>1,011,680</b>	<b>6,990,971</b>	<b>587,317</b>	<b>354,573</b>	<b>941,890</b>	<b>58.1%</b>	<b>5.1%</b>	<b>11.8%</b>

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The following chart summarizes *Referred and Non-referred Apprentices Quarterly Hours Earned* on all WSIP PLA-covered projects over the past eight quarters. As the WSIP PLA program continues to near completion there are fewer opportunities to refer workers to the projects and less hours worked overall. With 5,013 referred hours during the quarter, referred apprentices represented 34% of the apprentice hours this quarter.



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**Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,307** pre-employment tests have been administered as of September 30, 2017 to people who were cleared to work. 191 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.34%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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<b>WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 09/30/2017	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	1,728
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	247
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	118
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	96
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Skyline Blvd. Poir	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bay Division Pipeline No. 5, Cordilleras Microtunnel	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulch Grasslands	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,307</b>

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (Elation Systems, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. Elation Systems' electronic certified payrolls are used to produce the employment data included in this report.



HETCH HETCHY

WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

## **Quarterly Report Quarter Ended December 31, 2017 (Second Quarter FY 2017-2018)**

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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-four (54) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.162 billion in original contract award through December 31, 2017.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-four (54) construction contracts with a value of \$2.162 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 13,515 construction workers were employed for 8,125,309 hours and earned wages of \$316,767,330 on WSIP PLA-covered projects.
- 1,160 San Francisco residents worked 558,069 hours and earned \$20,691,391 on WSIP PLA-covered projects representing 7% of covered hours and 268 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 6,003 residents of the Regional Service Territory earned wages of \$133,039,613 and worked 3,487,331 hours, representing 43% of covered hours and 1,677 full-time equivalent worker years.
- 14,386 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of December 31, 2017. 193 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through December 31, 2017			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,515	8,125,309	\$ 316,767,330	3,906
San Francisco	1,160	558,069	\$ 20,691,391	268
SFPUC Service Territory	6,003	3,487,331	\$ 133,039,613	1,677
Outside	6,699	4,079,910	\$ 163,036,326	1,961

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Construction Activity Highlights – Quarter Ending December 31, 2017

**Contracting:**

- There was no contract awarded during the reporting period.

**Employment:**

- 428 construction workers were employed for 103,157 hours and earned wages of \$4,300,595 on WSIP PLA-covered projects.
- 45 San Francisco residents worked 6,180 hours and earned wages of \$238,179 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 153 residents of the Regional Service Territory worked 42,346 hours and earned wages of \$1,727,676 on WSIP PLA-covered projects.
- 79 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and 2 individuals were prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending December 31, 2017			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	428	103,157	\$ 4,300,595	50
San Francisco	45	6,180	\$ 238,179	3
SFPUC Service Territory	153	42,346	\$ 1,727,676	20
Outside	232	54,631	\$ 2,334,740	26

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40 hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through December 31, 2017					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facility	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Watershed	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J.Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood Forest	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andreas	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constnction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Proiect	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J.Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Alemany Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 54 Projects</b>					<b>\$ 2,162,341,320</b>

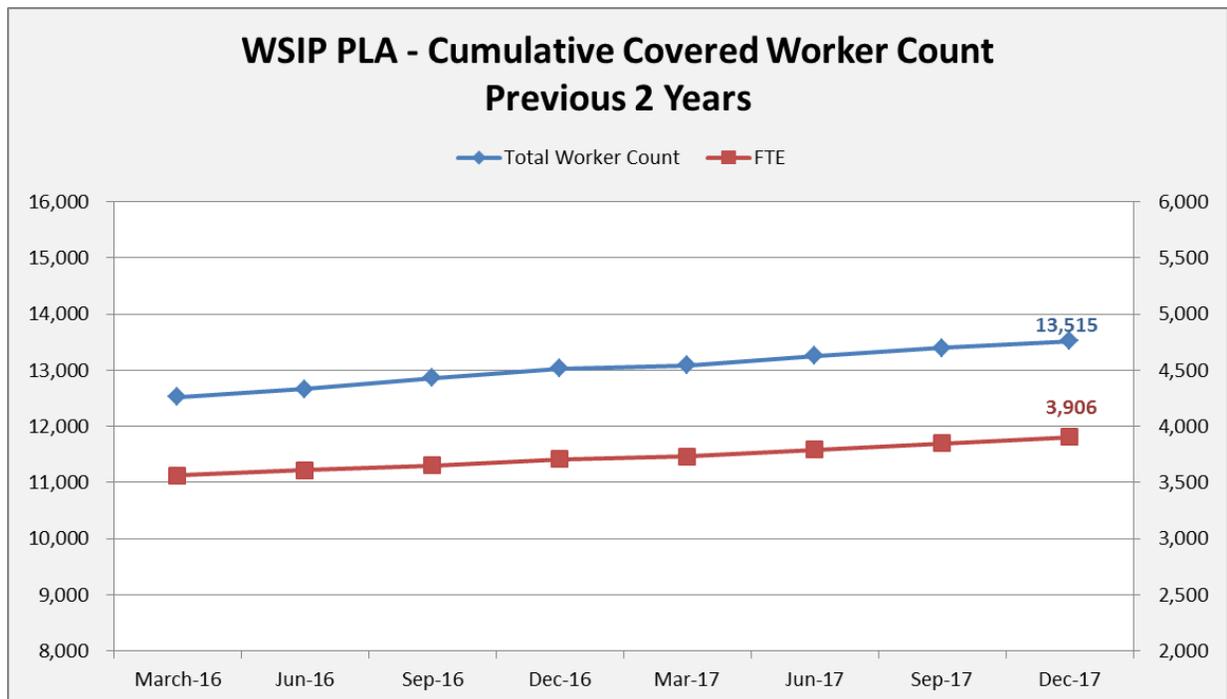
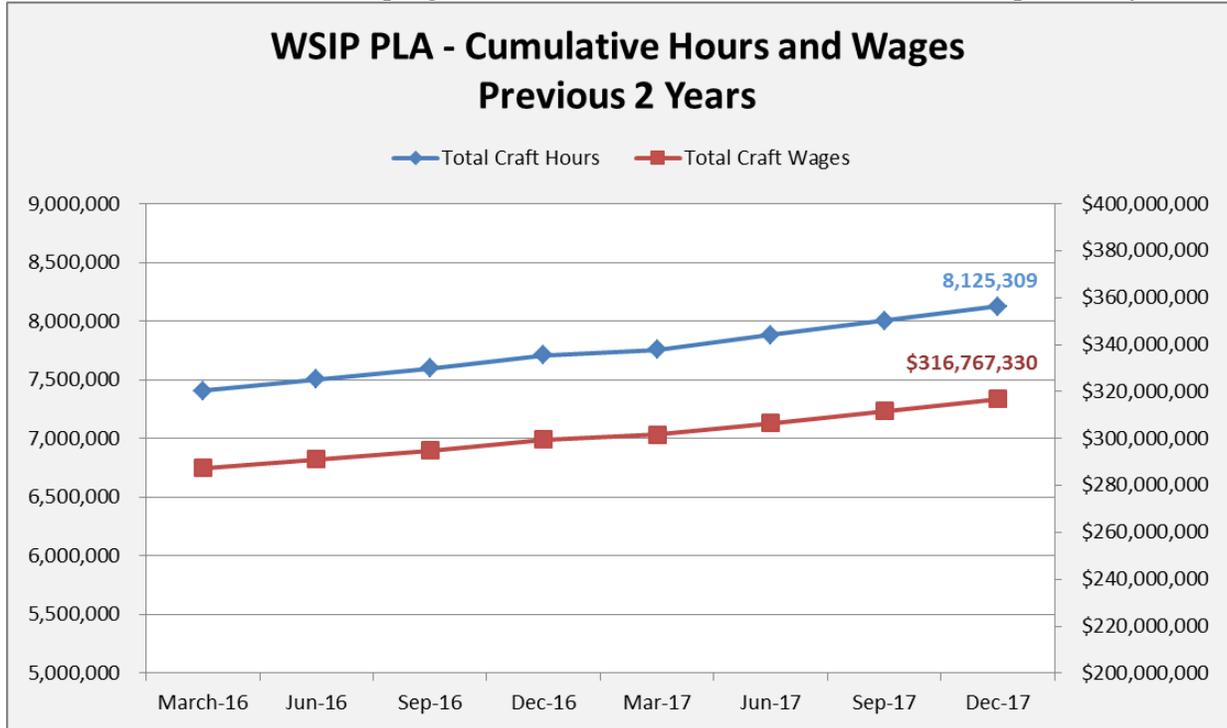
\* indicates projects located in San Francisco

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**Summary Charts**

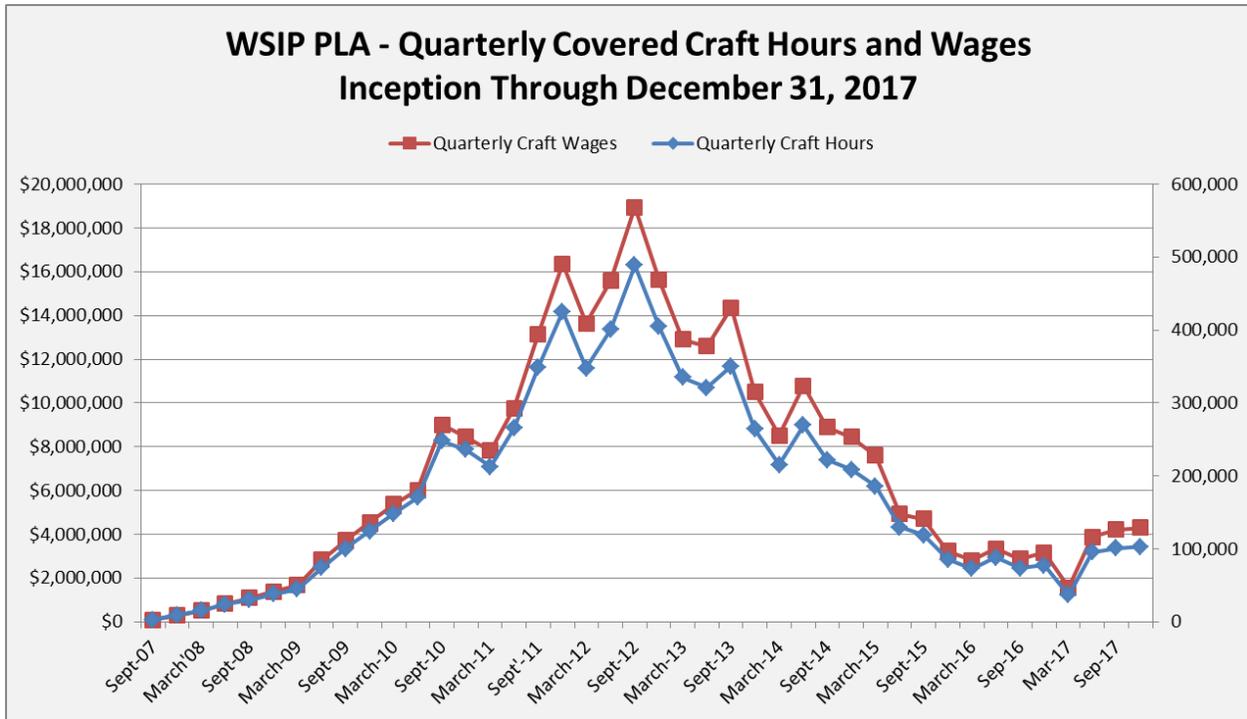
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending December 31, 2017; 13,515 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,125,309 craft hours and \$316,767,330 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

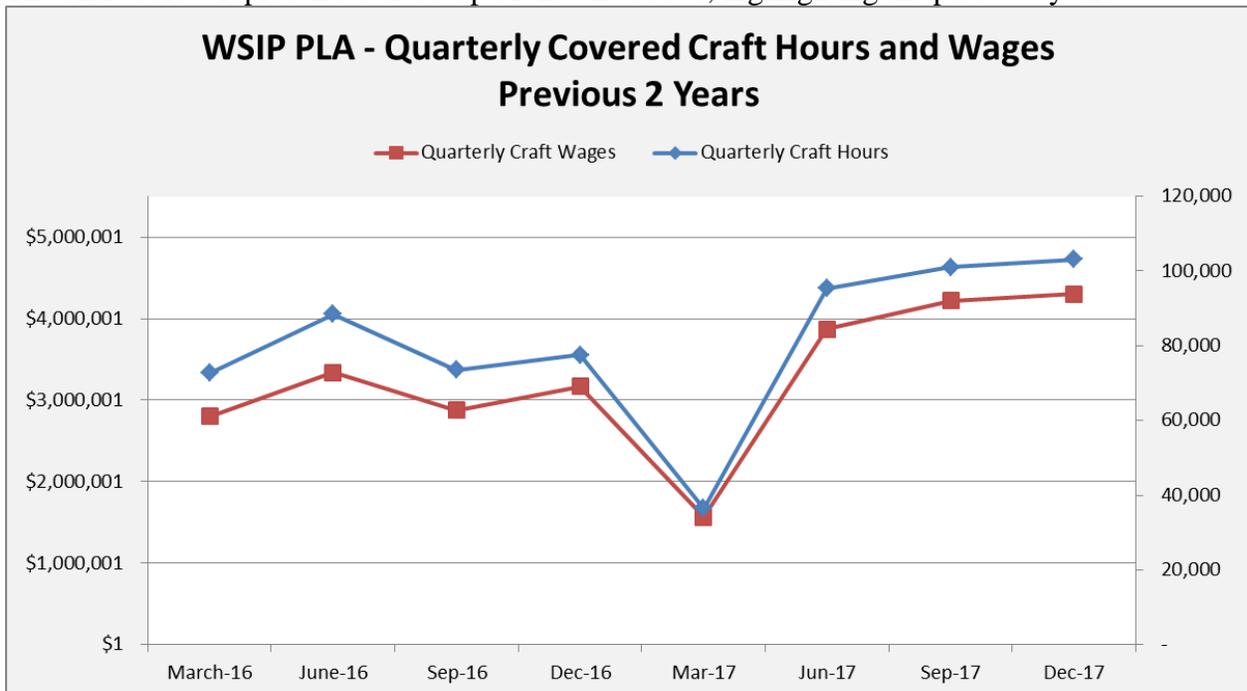


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of December 31, 2017, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 32 craft areas.

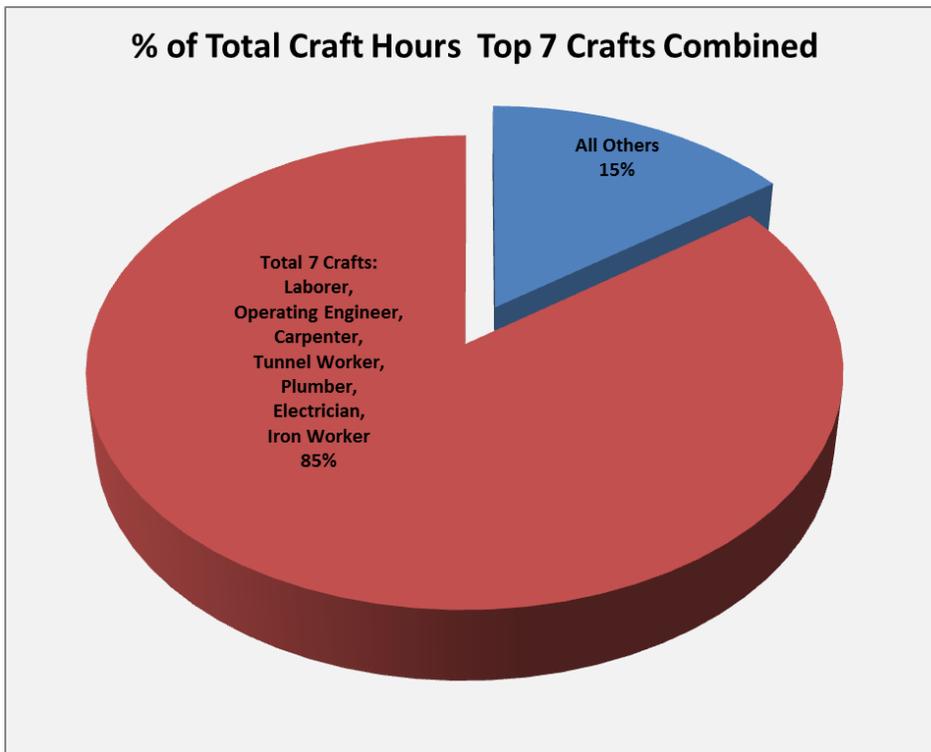
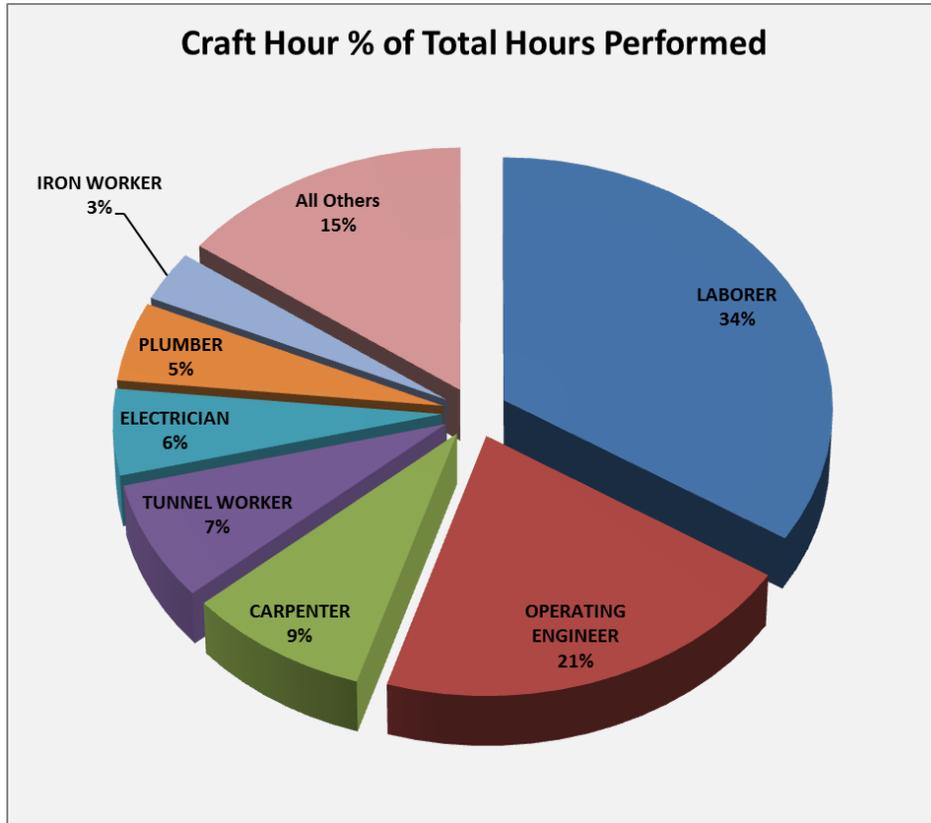
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through December 31, 2017					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,772,805	\$ 84,682,542	34.1%	26.7%	1,333
OPERATING ENGINEER (Combined)	1,673,877	\$ 67,899,243	20.6%	21.4%	805
CARPENTER AND RELATED TRADES	713,937	\$ 29,836,197	8.8%	9.4%	343
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	7.5%	8.2%	295
ELECTRICIAN	450,701	\$ 23,743,856	5.5%	7.5%	217
PLUMBER	415,787	\$ 19,417,059	5.1%	6.1%	200
IRON WORKER	263,689	\$ 8,934,558	3.2%	2.8%	127
<b>Top 7 Sub-Total</b>	<b>6,903,760</b>	<b>\$ 260,405,886</b>	<b>85.0%</b>	<b>82.2%</b>	<b>3,319</b>
PILE DRIVER (CARPENTER)	174,926	\$ 9,287,161	2.2%	2.9%	84
PAINTER	144,142	\$ 5,435,408	1.8%	1.7%	69
CEMENT MASON	125,008	\$ 4,357,686	1.5%	1.4%	60
BOILERMAKER-BLACKSMITH	119,080	\$ 6,265,903	1.5%	2.0%	57
BUILDING/CONSTRUCTION INSPECTOR AND	74,702	\$ 2,990,584	0.9%	0.9%	36
ROOFER	50,016	\$ 1,700,057	0.6%	0.5%	24
FIELD SURVEYOR	20,695	\$ 824,349	0.3%	0.3%	10
SHEET METAL WORKER	16,814	\$ 811,468	0.2%	0.3%	8
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	0.1%	0.2%	6
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	0.1%	0.1%	4
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	0.1%	0.1%	3
GLAZIER	4,331	\$ 187,483	0.1%	0.1%	2
PLASTERER	3,750	\$ 132,027	0.0%	0.0%	2
PLASTER TENDER	1,281	\$ 42,303	0.0%	0.0%	1
SHEET METAL WORKER (HVAC)	1,235	\$ 40,800	0.0%	0.0%	1
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMENT P	718	\$ 23,239	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROST IN	507	\$ 28,166	0.0%	0.0%	0
CARPET, LINOLEUM, SOFT FLOOR LAYER	354	\$ 15,964	0.0%	0.0%	0
TILE SETTER	351	\$ 12,929	0.0%	0.0%	0
TILE FINISHER	277	\$ 5,836	0.0%	0.0%	0
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	0.0%	0.0%	0
TERRAZZO WORKER	199	\$ 8,163	0.0%	0.0%	0
MARBLE FINISHER	40	\$ 1,342	0.0%	0.0%	0
TERRAZZO FINISHER	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticeable Sub-Total</b>	<b>766,712</b>	<b>\$ 33,467,873</b>	<b>9.4%</b>	<b>10.6%</b>	<b>369</b>
<b>Total Non-Apprenticeable</b>	<b>454,837</b>	<b>\$ 22,893,571</b>	<b>5.6%</b>	<b>7.2%</b>	<b>219</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,125,309</b>	<b>\$ 316,767,330</b>	<b>100.0%</b>	<b>100.0%</b>	<b>3,906</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of December 31, 2017. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 71% of craft hours worked on PLA-covered projects.



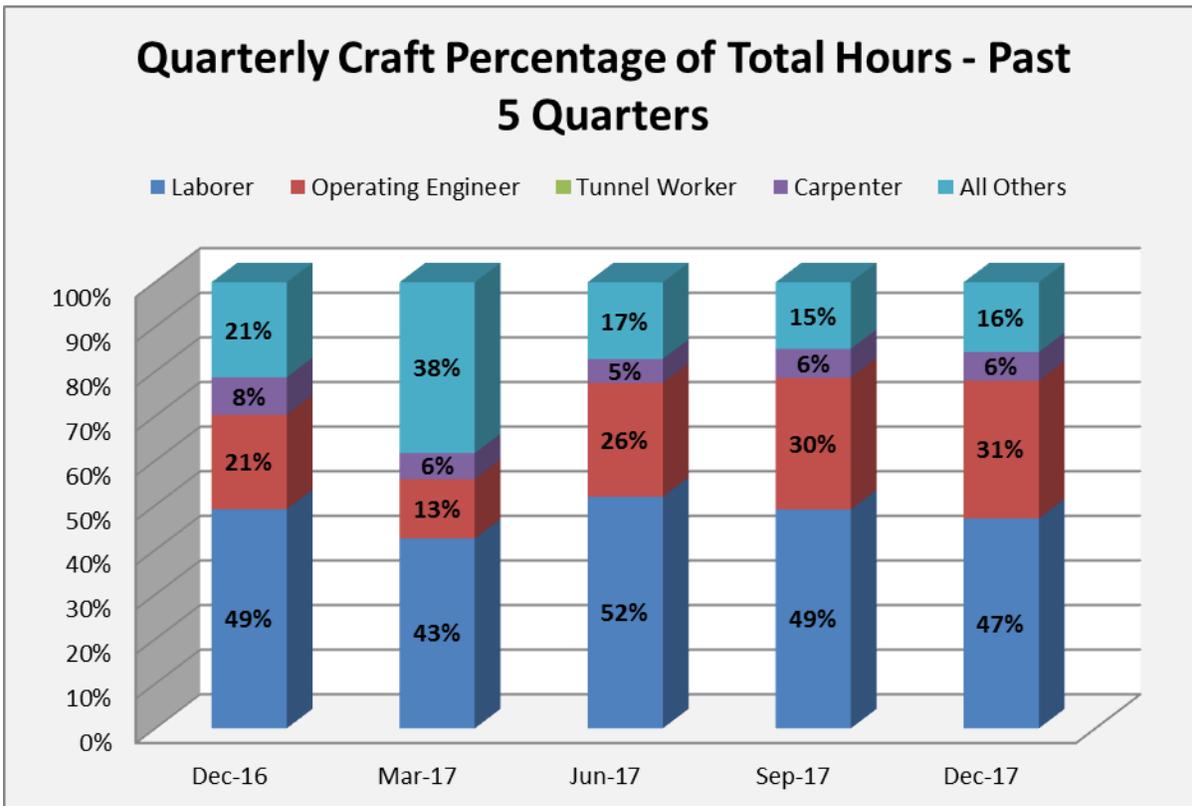
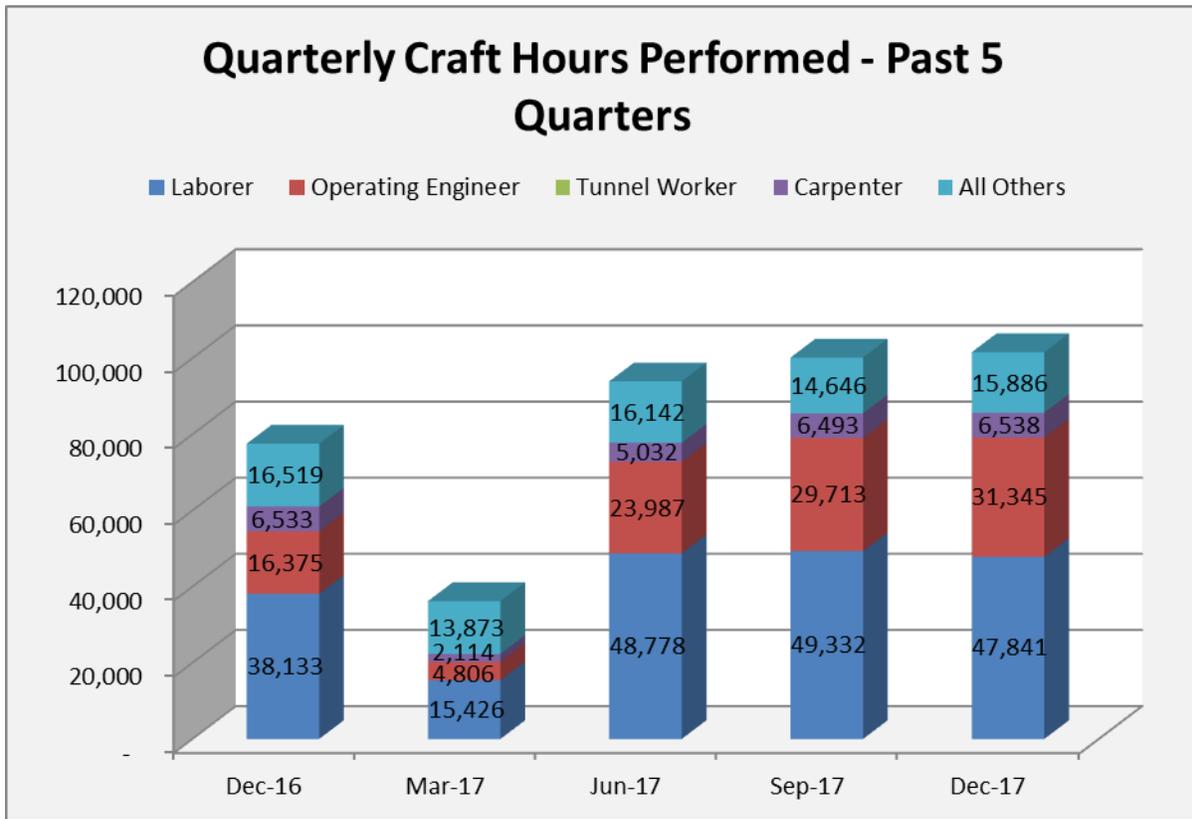
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 12-31-2017 Hours	Quarter Ending 12-31-2017 Wages
LABORER	2,772,805	\$ 84,682,542	47,841	\$ 1,653,384
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	1,021,356	\$ 42,516,860	7,132	\$ 373,180
OPERATING ENGINEER	595,208	\$ 22,934,817	21,649	\$ 1,025,197
PILE DRIVER (OPERATING ENGINEER - HEAVY AND	51,487	\$ 2,170,668	-	\$ -
OPERATING ENGINEER (SPECIAL SINGLE AND SEC	5,826	\$ 276,899	2,564	\$ 131,978
OPERATING ENGINEER (COMBINED)	1,673,877	\$ 67,899,243	31,345	\$ 1,530,354
CARPENTER AND RELATED TRADES	713,937	\$ 29,836,197	6,538	\$ 304,401
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	-	\$ -
ELECTRICIAN	450,701	\$ 23,743,856	2,472	\$ 132,196
PLUMBER	415,787	\$ 19,417,059	724	\$ 37,198
IRON WORKER	263,689	\$ 8,934,558	1,220	\$ 48,107
PILE DRIVER (CARPENTER)	174,926	\$ 9,287,161	4,575	\$ 222,943
PAINTER	144,142	\$ 5,435,408	204	\$ 8,028
CEMENT MASON	125,008	\$ 4,357,686	3,214	\$ 118,454
BOILERMAKER-BLACKSMITH	119,080	\$ 6,265,903	-	\$ -
BUILDING/CONSTRUCTION INSPECTOR AND FIELD S	74,702	\$ 2,990,584	2,954	\$ 118,221
ROOFER	50,016	\$ 1,700,057	-	\$ -
FIELD SURVEYOR	20,695	\$ 824,349	174	\$ 6,514
SHEET METAL WORKER	16,814	\$ 811,468	350	\$ 17,602
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	-	\$ -
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	-	\$ -
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	-	\$ -
GLAZIER	4,331	\$ 187,483	-	\$ -
PLASTERER	3,750	\$ 132,027	-	\$ -
PLASTER TENDER	1,281	\$ 42,303	-	\$ -
SHEET METAL WORKER (HVAC)	1,235	\$ 40,800	-	\$ -
BRICK TENDER	827	\$ 27,956	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER	718	\$ 23,239	-	\$ -
ASBESTOS WORKER, HEAT AND FROST INSULATO	507	\$ 28,166	-	\$ -
CARPET, LINOLEUM, SOFT FLOOR LAYER	354	\$ 15,964	-	\$ -
TILE SETTER	351	\$ 12,929	-	\$ -
TILE FINISHER	277	\$ 5,836	-	\$ -
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	-	\$ -
TERRAZZO WORKER	199	\$ 8,163	-	\$ -
MARBLE FINISHER	40	\$ 1,342	-	\$ -
TERRAZZO FINISHER	4	\$ 160	-	\$ -
<b>Total Apprenticable</b>	<b>7,670,472</b>	<b>\$ 293,873,759</b>	<b>101,610</b>	<b>\$ 4,197,402</b>
<b>Non-Apprenticeable</b>				
ASBESTOS REMOVAL WORKER (LABORER)	17,057	\$ 431,301	-	\$ -
DREDGER OPERATING ENGINEER	831	\$ 33,307	-	\$ -
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTIO	97,725	\$ 7,100,588	84	\$ 7,825
IRONWORKER (DB)	80	\$ 2,772	-	\$ -
LANDSCAPE MAINTENANCE LABORER	1,691	\$ 39,705	-	\$ -
OPERATING ENGINEER (BUILDING CONSTRUCTION	635	\$ 24,481	-	\$ -
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK	95,208	\$ 4,417,947	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER	265	\$ 8,680	-	\$ -
SLURRY SEAL WORKER	592	\$ 14,870	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING E	1,123	\$ 56,467	-	\$ -
TEAMSTER	131,133	\$ 6,046,787	1,464	\$ 95,368
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	\$ 291	-	\$ -
TELECOMMUNICATIONS TECHNICIAN	1,160	\$ 37,245	-	\$ -
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001	\$ 35,916	-	\$ -
TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)	1,422	\$ 36,006	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-H	79,393	\$ 3,567,605	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-H	13,201	\$ 585,230	-	\$ -
WATER WELL DRILLER	12,313	\$ 454,372	-	\$ -
<b>Total Non-Apprenticeable</b>	<b>454,837</b>	<b>\$ 22,893,571</b>	<b>1,547</b>	<b>\$ 103,193</b>
<b>Total Apprenticable</b>	<b>7,670,472</b>	<b>\$ 293,873,759</b>	<b>101,610</b>	<b>\$ 4,197,402</b>
<b>Total WSIP PLA</b>	<b>8,125,309</b>	<b>\$ 316,767,330</b>	<b>103,157</b>	<b>\$ 4,300,595</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

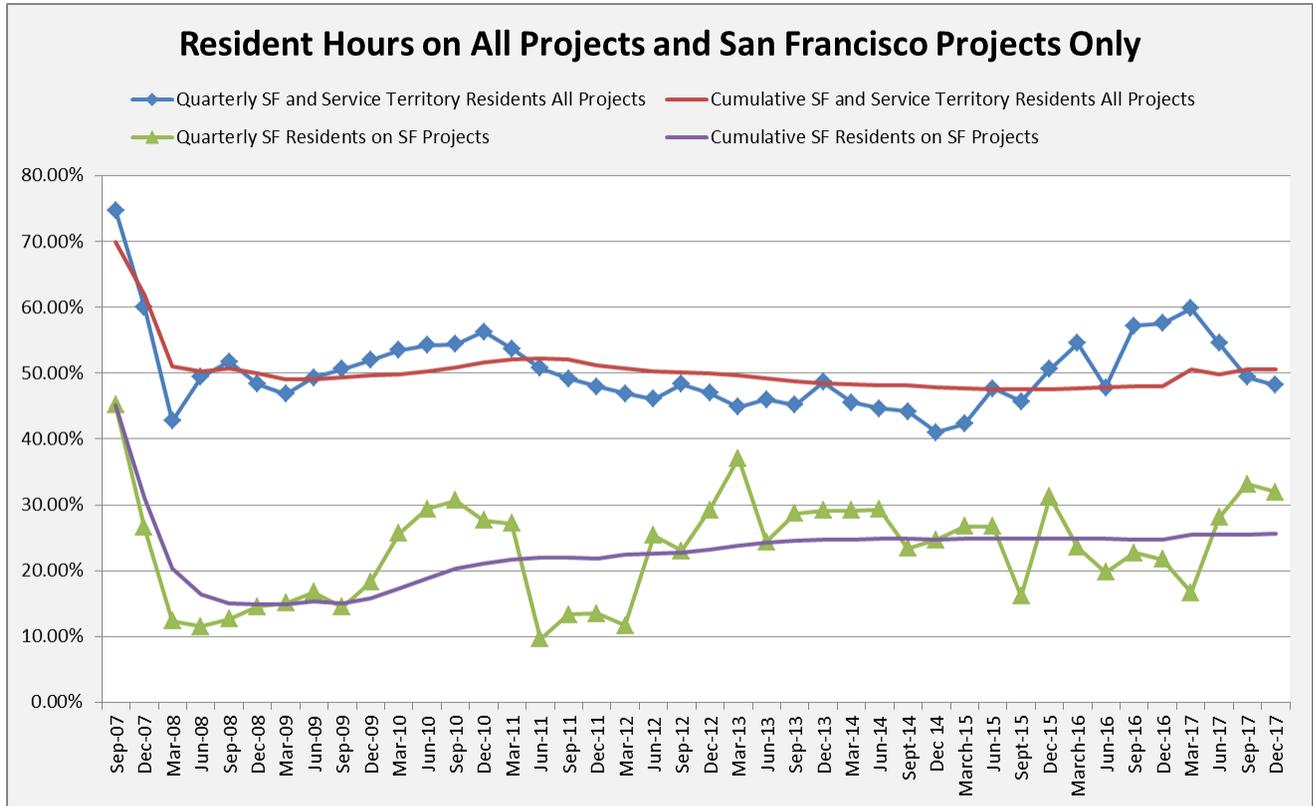


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**Worker Residence on the WSIP PLA**

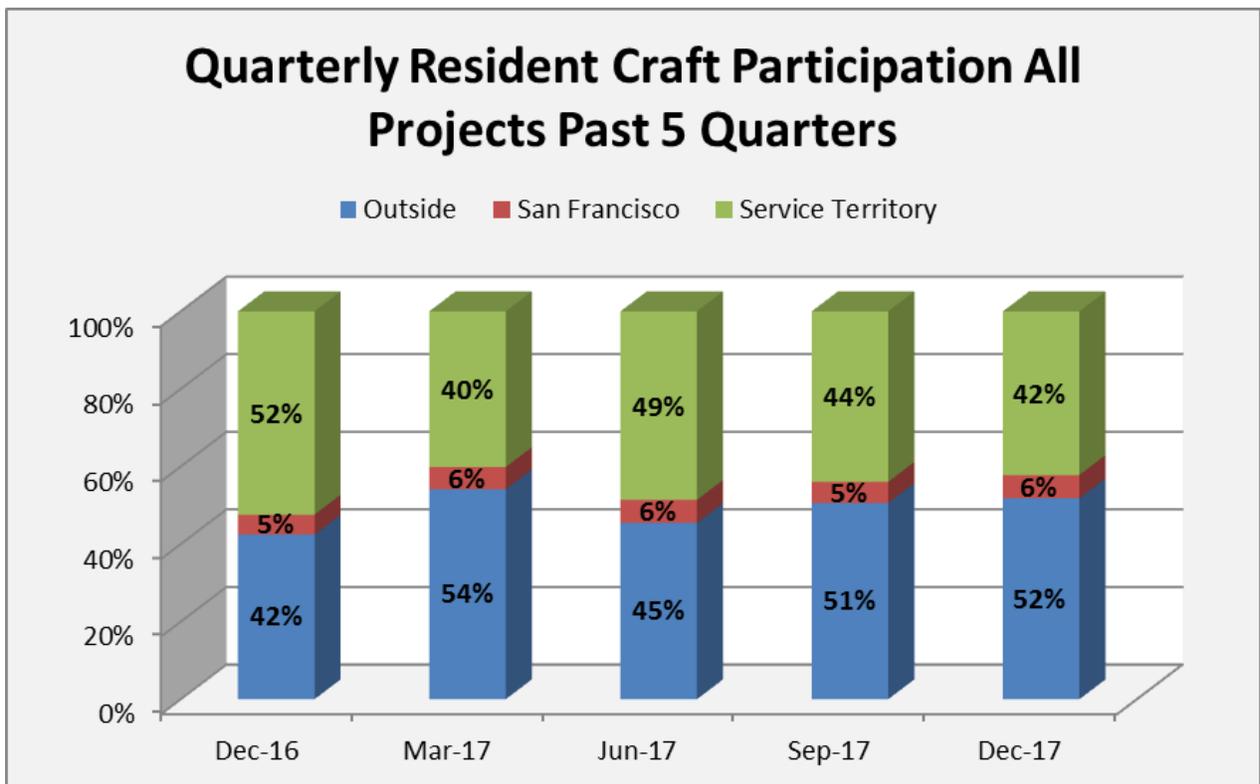
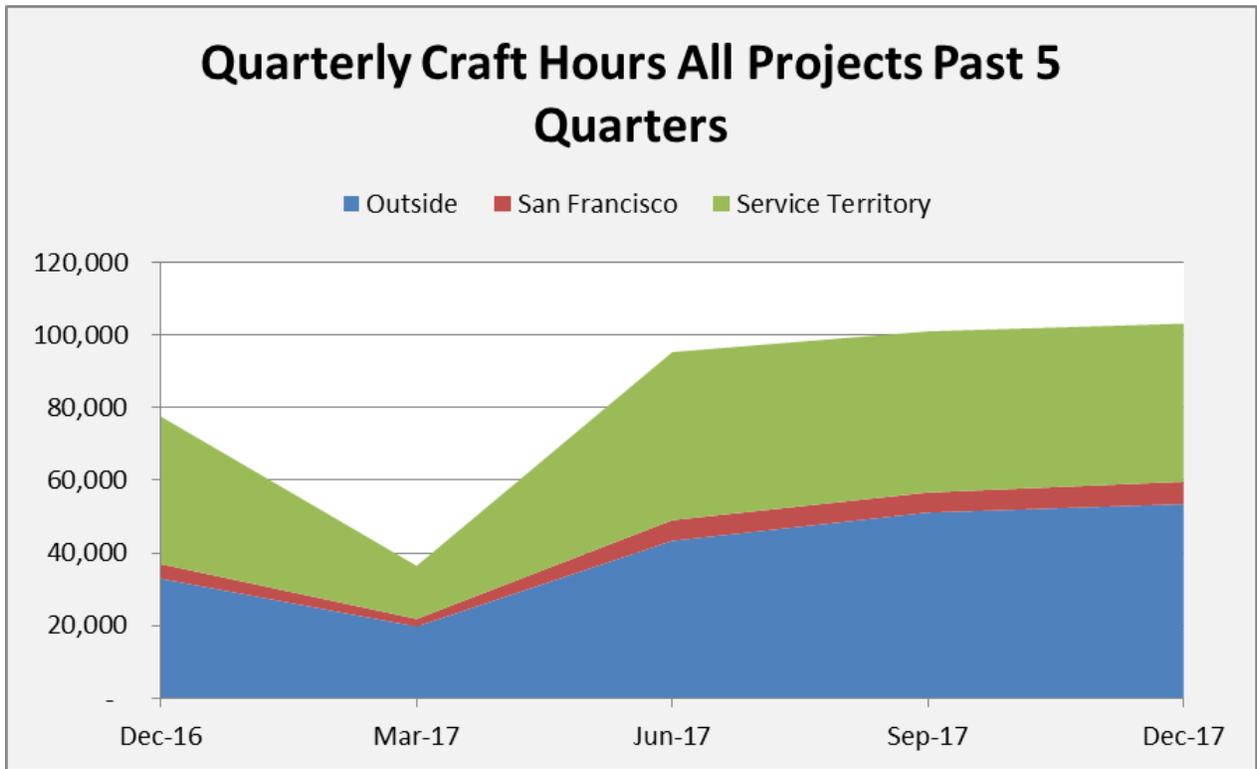
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through December 31, 2017.



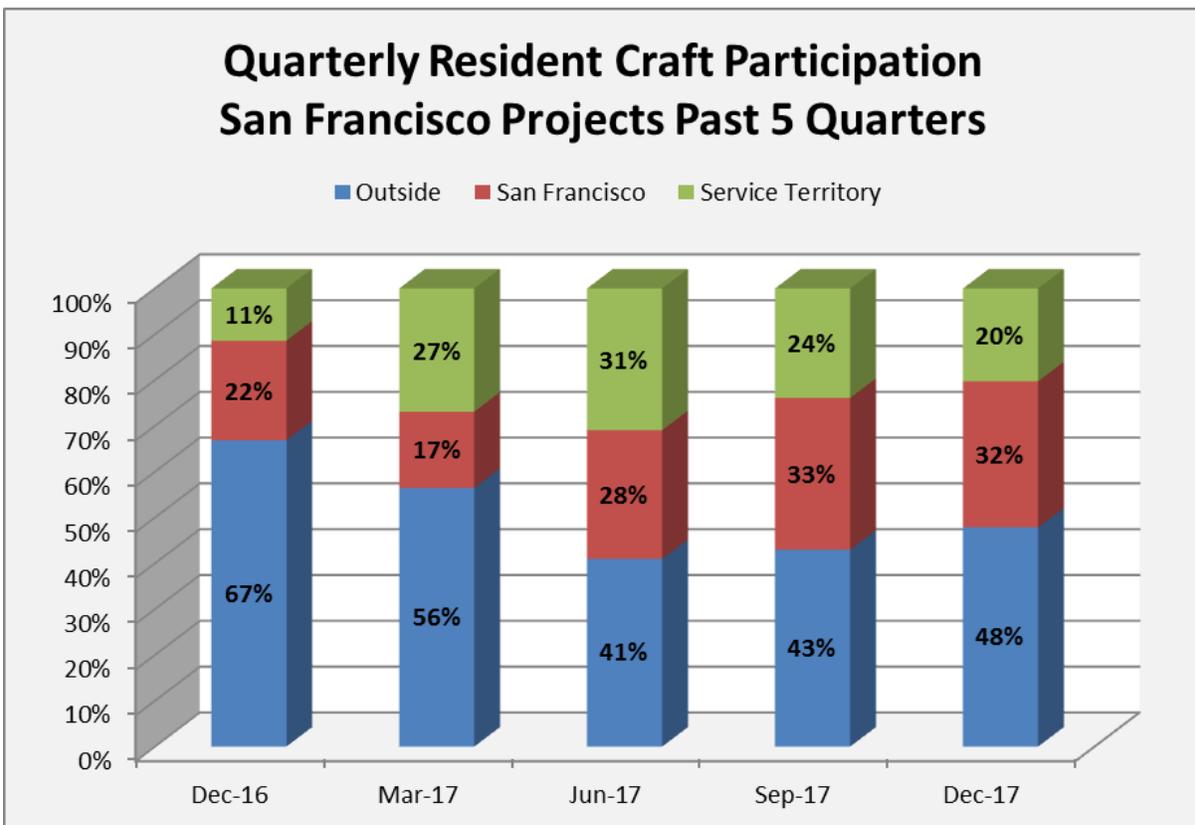
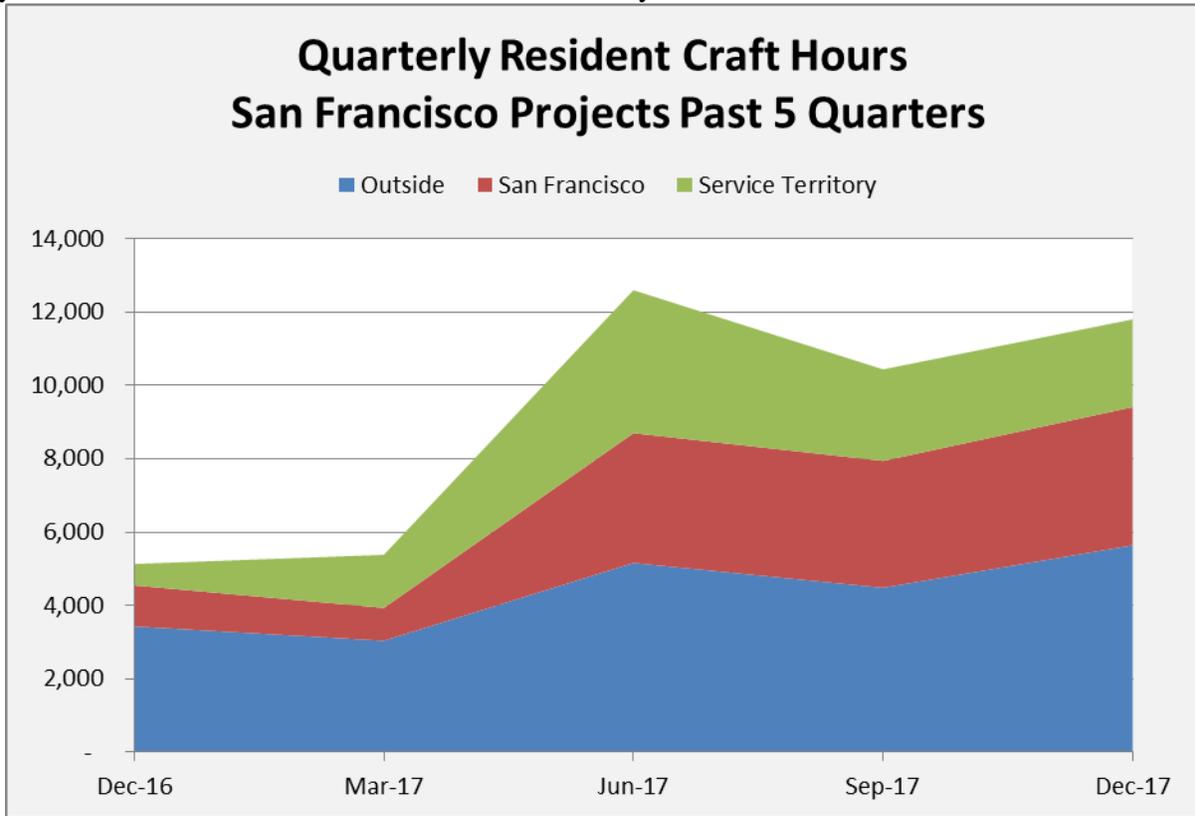
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**Residence on ALL WSIP PLA Projects** - Charted are 54 of the 54 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



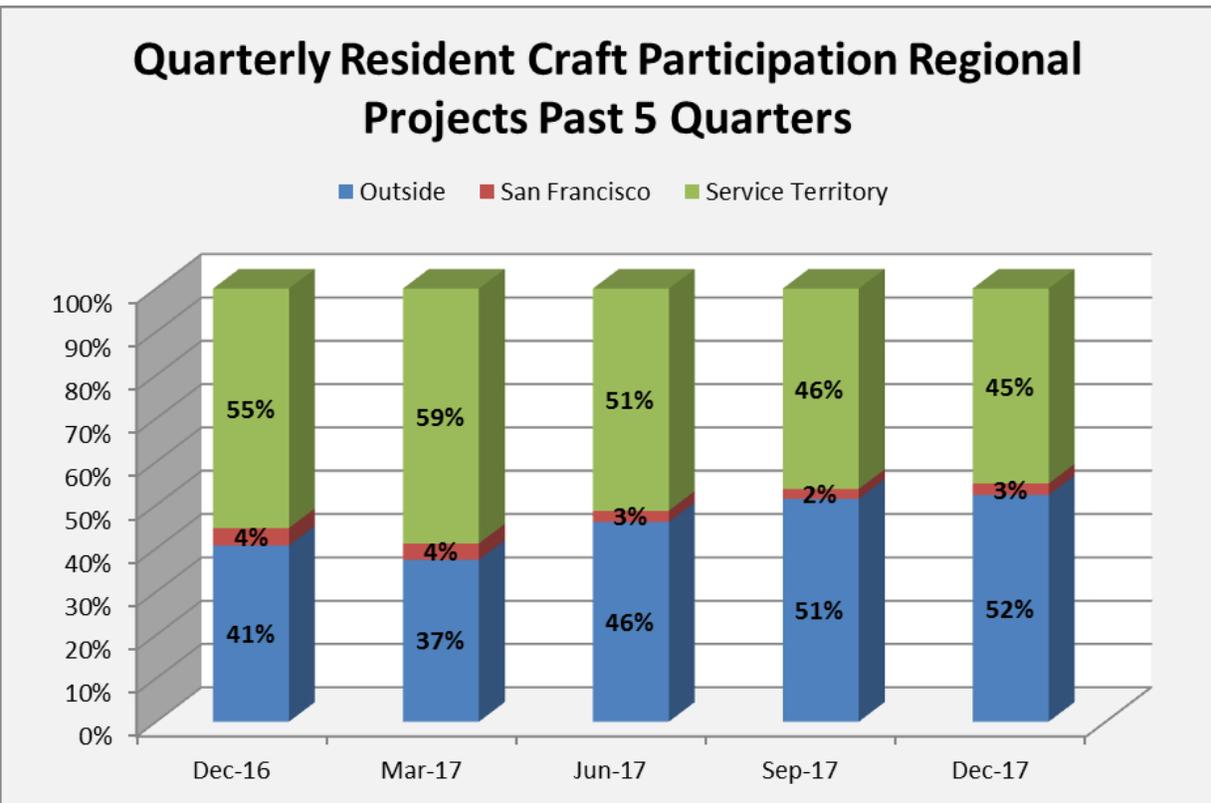
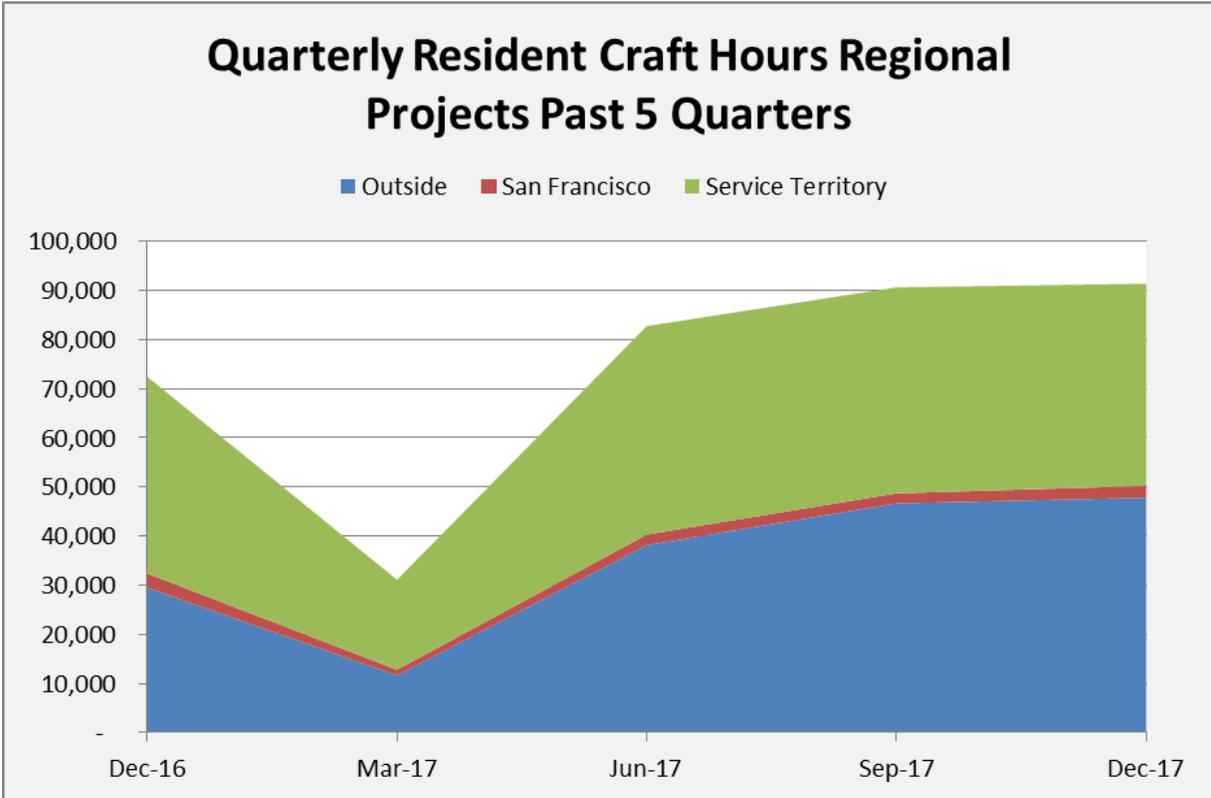
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 38 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through December 31,2017					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,513,946	\$ 55,598,090	18.6%	2,768	728
Contra Costa	1,068,246	\$ 41,223,053	13.1%	1,842	514
San Mateo	793,292	\$ 31,573,201	9.8%	1,223	381
San Joaquin	763,104	\$ 28,285,802	9.4%	1,156	367
<b>San Francisco</b>	<b>561,181</b>	<b>\$ 20,792,344</b>	<b>6.9%</b>	<b>1,162</b>	<b>270</b>
Santa Clara	460,002	\$ 18,679,523	5.7%	1,209	221
Solano	406,759	\$ 16,031,076	5.0%	770	196
Stanislaus	350,797	\$ 12,734,221	4.3%	587	169
Sacramento	336,218	\$ 13,178,447	4.1%	562	162
Butte	207,155	\$ 8,162,803	2.5%	119	100
Sonoma	174,469	\$ 6,992,395	2.1%	315	84
Tuolumne	91,750	\$ 3,516,073	1.1%	94	44
Calaveras	91,412	\$ 3,993,099	1.1%	79	44
Placer	86,816	\$ 3,535,152	1.1%	126	42
El Dorado	84,182	\$ 3,514,808	1.0%	85	40
Yolo	67,490	\$ 2,604,492	0.8%	90	32
Los Angeles	66,784	\$ 2,851,424	0.8%	140	32
Shasta	64,474	\$ 2,811,257	0.8%	55	31
Clark	63,352	\$ 2,804,384	0.8%	67	30
Napa	55,353	\$ 2,432,143	0.7%	75	27
<b>Top 20 Counties by Hours</b>	<b>7,306,781</b>	<b>\$ 281,313,790</b>	<b>89.9%</b>	<b>12,524</b>	<b>3,513</b>
All Other Counties	818,529	\$ 35,453,540	10.1%	991	394
<b>WSIP-PLA Total</b>	<b>8,125,309</b>	<b>\$ 316,767,330</b>	<b>100.0%</b>	<b>13,515</b>	<b>3,906</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through December 31, 2017					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	96,640	\$ 3,354,717	17.2%	199	46
94124	86,752	\$ 3,256,221	15.5%	231	42
94110	82,301	\$ 2,783,099	14.7%	168	40
94116	70,606	\$ 3,348,883	12.6%	78	34
94134	42,385	\$ 1,289,742	7.6%	109	20
94122	31,261	\$ 1,361,748	5.6%	61	15
94121	24,756	\$ 975,639	4.4%	47	12
94103	24,677	\$ 762,542	4.4%	35	12
94127	20,099	\$ 721,522	3.6%	21	10
94102	8,640	\$ 384,054	1.5%	20	4
94132	8,550	\$ 336,206	1.5%	32	4
94118	8,394	\$ 411,471	1.5%	20	4
94131	8,101	\$ 307,169	1.4%	21	4
94117	7,957	\$ 200,923	1.4%	17	4
94107	7,730	\$ 288,935	1.4%	20	4
94133	5,718	\$ 208,990	1.0%	9	3
94114	4,889	\$ 189,578	0.9%	13	2
94164	3,451	\$ 98,256	0.6%	2	2
94109	3,403	\$ 100,513	0.6%	19	2
94130	3,391	\$ 73,060	0.6%	11	2
94108	3,348	\$ 71,658	0.6%	8	2
94115	1,773	\$ 51,839	0.3%	22	1
94188	1,391	\$ 33,477	0.2%	5	1
94142	1,318	\$ 57,607	0.2%	7	1
94111	661	\$ 14,669	0.1%	3	0
94166	638	\$ 30,298	0.1%	1	0
94104	523	\$ 13,179	0.1%	2	0
94123	496	\$ 24,939	0.1%	2	0
94129	447	\$ 13,106	0.1%	1	0
94140	288	\$ 11,589	0.1%	1	0
94119	255	\$ 7,976	0.0%	1	0
94147	162	\$ 4,785	0.0%	1	0
94105	141	\$ 2,599	0.0%	1	0
94125	29	\$ 994	0.0%	2	0
94158	16	\$ 362	0.0%	2	0
<b>Total</b>	<b>558,069</b>	<b>\$ 20,691,391</b>	<b>100%</b>	<b>1,160</b>	<b>268</b>
<b>WSIP-PLA Total</b>	<b>8,125,309</b>	<b>\$ 316,767,330</b>	<b>-</b>	<b>13,515</b>	<b>3,906</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through December 31, 2017							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
OPERATING ENGINEER (HEAVY AND	1,021,356	18,966	418,897	583,494	1.9%	41.0%	57.1%
CARPENTER AND RELATED TRADES	713,937	78,544	312,192	323,201	11.0%	43.7%	45.3%
TUNNEL WORKER (LABORER)	612,964	11,171	249,754	352,040	1.8%	40.8%	57.4%
OPERATING ENGINEER	595,208	47,897	227,653	319,659	8.1%	38.3%	53.7%
ELECTRICIAN	450,701	24,470	266,158	160,074	5.4%	59.1%	35.5%
PLUMBER	415,787	80,894	145,005	189,888	19.5%	34.9%	45.7%
IRON WORKER	263,689	19,657	99,360	144,673	7.5%	37.7%	54.9%
PILE DRIVER (CARPENTER)	174,926	6,526	55,231	113,169	3.7%	31.6%	64.7%
PAINTER	144,142	8,977	18,767	116,399	6.2%	13.0%	80.8%
CEMENT MASON	125,008	5,824	58,108	61,076	4.7%	46.5%	48.9%
BOILERMAKER-BLACKSMITH	119,080	48	27,196	91,836	0.0%	22.8%	77.1%
BUILDING/CONSTRUCTION INSPECTOR	74,702	3,943	11,834	58,925	5.3%	15.8%	78.9%
PILE DRIVER (OPERATING ENGINEER	51,487	499	8,554	42,434	1.0%	16.6%	82.4%
ROOFER	50,016	3,113	28,665	18,238	6.2%	57.3%	36.5%
FIELD SURVEYOR	20,695	1,345	4,131	15,219	6.5%	20.0%	73.5%
SHEET METAL WORKER	16,814	1,940	9,378	5,497	11.5%	55.8%	32.7%
DRYWALL INSTALLER/LATHER (CARP	11,886	1,435	3,041	7,411	12.1%	25.6%	62.4%
BRICKLAYER, BLOCKLAYER	8,574	82	4,397	4,095	1.0%	51.3%	47.8%
ELECTRICAL UTILITY LINEMAN	6,797	-	214	6,582	0.0%	3.2%	96.9%
OPERATING ENGINEER (SPECIAL SIN	5,826	47	1,691	4,089	0.8%	29.0%	70.2%
GLAZIER	4,331	1,018	1,424	1,890	23.5%	32.9%	43.6%
PLASTERER	3,750	1,270	958	1,523	33.9%	25.5%	40.6%
PLASTER TENDER	1,281	882	237	163	68.8%	18.5%	12.7%
SHEET METAL WORKER (HVAC)	1,235	277	757	202	22.4%	61.3%	16.4%
BRICK TENDER	827	287	78	462	34.7%	9.4%	55.9%
PARKING AND HIGHWAY IMPROVEME	718	-	384	334	0.0%	53.5%	46.5%
ASBESTOS WORKER, HEAT AND FRO	507	-	268	239	0.0%	52.9%	47.1%
CARPET, LINOLEUM, SOFT FLOOR LA	354	6	89	259	1.7%	25.1%	73.2%
TILE SETTER	351	-	344	7	0.0%	98.0%	2.0%
TILE FINISHER	277	-	237	40	0.0%	85.6%	14.4%
METAL ROOFING SYSTEMS INSTALLE	201	-	201	-	0.0%	100.0%	0.0%
TERRAZZO WORKER	199	-	-	199	0.0%	0.0%	100.0%
MARBLE FINISHER	40	-	40	-	0.0%	100.0%	0.0%
TERRAZZO FINISHER	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticable</b>	<b>4,897,667</b>	<b>319,113</b>	<b>1,955,242</b>	<b>2,623,312</b>	<b>6.5%</b>	<b>39.9%</b>	<b>53.6%</b>
LABORER	2,772,805	211,681	1,278,118	1,283,007	7.6%	46.1%	46.3%
<b>Non-Apprenticable</b>							
ASBESTOS REMOVAL WORKER (LAB	17,057	887	2,270	13,900	5.2%	13.3%	81.5%
DREDGER OPERATING ENGINEER	831	-	-	831	0.0%	0.0%	100.0%
DRIVER (ON/OFF-HAULING TO/FROM C	97,725	16,407	64,761	16,557	16.8%	66.3%	16.9%
IRONWORKER (DB)	80	-	-	80	0.0%	0.0%	100.0%
LANDSCAPE MAINTENANCE LABORE	1,691	360	1,110	221	21.3%	65.6%	13.1%
OPERATING ENGINEER (BUILDING CO	635	133	229	273	20.9%	36.1%	43.0%
OPERATING ENGINEER (HEAVY AND	95,208	-	45,352	49,856	0.0%	47.6%	52.4%
PARKING AND HIGHWAY IMPROVEME	265	-	167	98	0.0%	63.0%	37.0%
SLURRY SEAL WORKER	592	-	321	271	0.0%	54.3%	45.7%
STEEL ERECTOR AND FABRICATOR (C	1,123	-	282	841	0.0%	25.1%	74.9%
TEAMSTER	131,133	9,387	74,445	47,301	7.2%	56.8%	36.1%
TEAMSTER (SPECIAL SINGLE SHIFT R	11	-	-	11	0.0%	0.0%	100.0%
TELECOMMUNICATIONS TECHNICIAN	1,160	-	1,088	72	0.0%	93.8%	6.2%
TRAFFIC CONTROL/LANE CLOSURE (L	1,001	-	789	212	0.0%	78.8%	21.2%
TREE TRIMMER (HIGH VOLTAGE LINE	1,422	32	1,191	199	2.3%	83.8%	14.0%
TUNNEL/UNDERGROUND (OPERATING	79,393	70	45,067	34,257	0.1%	56.8%	43.2%
TUNNEL/UNDERGROUND (OPERATING	13,201	-	9,364	3,837	0.0%	70.9%	29.1%
WATER WELL DRILLER	12,313	-	7,536	4,777	0.0%	61.2%	38.8%
<b>Total Non-Apprenticable</b>	<b>454,837</b>	<b>27,276</b>	<b>253,970</b>	<b>173,591</b>	<b>6.0%</b>	<b>55.8%</b>	<b>38.2%</b>
<b>Total WSIP PLA</b>	<b>8,125,309</b>	<b>558,069</b>	<b>3,487,331</b>	<b>4,079,910</b>	<b>6.9%</b>	<b>42.9%</b>	<b>50.2%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through December 31, 2017							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replacement Project	1,257,950	5,528	530,714	721,708	0.4%	42.2%	57.4%
WD-2596 - Harry Tracy Water Treatment Plant Loc	1,013,917	63,555	381,991	568,371	6.3%	37.7%	56.1%
WD-2581 - New Irvington Tunnel	730,584	3,538	335,744	391,302	0.5%	46.0%	53.6%
WD-2531 - Bay Division Pipelines Reliability Upgr	583,318	18,599	335,644	229,074	3.2%	57.5%	39.3%
WD-2601 - Crystal Springs / San Andreas Transp	489,176	25,360	194,232	269,583	5.2%	39.7%	55.1%
WD-2582 - Sunol Valley Water Treatment Plant a	462,447	11,765	202,938	247,744	2.5%	43.9%	53.6%
WD-2542 - Bay Division Pipeline No. 5 - Peninsu	288,044	2,903	135,042	150,100	1.0%	46.9%	52.1%
CS-936 - Advanced Meter Infrastructure	227,027	72,108	84,621	70,298	31.8%	37.3%	31.0%
WD-2541 - Bay Division Pipeline No. 5 - East Bay	208,255	14,163	86,775	107,317	6.8%	41.7%	51.5%
WD-2539 - University Mound Reservoir North Bas	187,032	50,004	44,847	92,181	26.7%	24.0%	49.3%
WD-2627R - Sutro Reservoir Rehabilitation and S	154,545	49,239	39,346	65,960	31.9%	25.5%	42.7%
HH-935C - San Joaquin Pipeline System - Easter	144,012	83	82,510	61,420	0.1%	57.3%	42.6%
WD-2668 - Regional Groundwater Storage and Re	143,754	24,863	74,420	44,472	17.3%	51.8%	30.9%
DB-116 - Tesla Treatment Facility	141,910	2,062	96,192	43,656	1.5%	67.8%	30.8%
WD-2629 - Seismic Upgrade of Bay Division Pipe	133,703	567	56,473	76,664	0.4%	42.2%	57.3%
WD-2552 - Alameda Siphon No. 4 Project	129,485	1,450	61,738	66,297	1.1%	47.7%	51.2%
WD-2555 - Crystal Springs Pipeline No.2 Replace	127,805	34,336	35,415	58,054	26.9%	27.7%	45.4%
WD-2729 - Fish Passage Facilities Within The A	118,774	1,278	53,599	63,898	1.1%	45.1%	53.8%
WD-2498 - New Crystal Springs Bypass (Polhem	117,860	6,825	61,288	49,748	5.8%	52.0%	42.2%
WD-2652 - Bioregional Habitat Restoration, San	110,655	3,388	49,991	57,276	3.1%	45.2%	51.8%
WD-2548 - Lake Merced Pump Station Essential	101,050	23,185	27,768	50,098	22.9%	27.5%	49.6%
HH-935B - San Joaquin Pipeline System - Weste	100,492	426	45,319	54,747	0.4%	45.1%	54.5%
WD-2591 - Lower Crystal Springs Dam Improvem	98,656	5,022	57,594	36,040	5.1%	58.4%	36.5%
HH-935A - San Joaquin Pipeline System - Crosso	84,483	158	47,626	36,699	0.2%	56.4%	43.4%
WD-2513 - San Andreas Pipeline No.3 Installati	83,503	6,294	30,974	46,234	7.5%	37.1%	55.4%
WD-2575 - San Antonio Backup Pipeline	75,263	9,125	33,899	32,239	12.1%	45.0%	42.8%
WD-2504 - Stanford Heights Reservoir Seismic R	74,300	11,120	19,925	43,256	15.0%	26.8%	58.2%
WD-2501 - Alemany Pump Station	74,085	7,565	28,862	37,658	10.2%	39.0%	50.8%
WD-2727 - Peninsula Pipeline Seismic Upgrade	69,772	14,069	23,830	31,873	20.2%	34.2%	45.7%
WD-2543 - North University Mound System Upgra	53,265	10,250	18,206	24,809	19.2%	34.2%	46.6%
WD-2621R - San Francisco Groundwater Supply	51,304	10,905	12,390	28,009	21.3%	24.1%	54.6%
WD-2573 - Pulgas Balancing Reservoir Structural	50,367	5,166	25,129	20,073	10.3%	49.9%	39.9%
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	47,910	4,908	15,264	27,738	10.2%	31.9%	57.9%
WD-2641R - Habitat Reserve Program, Homestead	44,018	7,592	11,135	25,292	17.2%	25.3%	57.5%
WD-2564 - Harry Tracy Water Treatment Plant - S	43,049	7,220	12,879	22,950	16.8%	29.9%	53.3%
WD-2654R - Peninsula Vegetation Removal	28,075	4,688	8,809	14,577	16.7%	31.4%	51.9%
WD-2469 - Forest Knolls Pump Station and Stora	26,553	3,828	8,582	14,143	14.4%	32.3%	53.3%
WD-2798 - San Francisco Westside Recycled W	25,771	8,854	7,273	9,645	34.4%	28.2%	37.4%
WD-2666 - Bioregional Habitat Restoration, Shee	23,492	46	16,571	6,876	0.2%	70.5%	29.3%
WD-2623 - Harding Park Recycled Water Proiect	22,727	4,530	13,464	4,734	19.9%	59.2%	20.8%
WD-2651R - Peninsula 2011 Watershed Comple	22,569	557	11,609	10,403	2.5%	51.4%	46.1%
WD-2529 - Noe Valley Transmission Main - Phas	22,511	3,918	7,931	10,662	17.4%	35.2%	47.4%
WD-2665 - Bay Division Pipeline Reliability Upgra	21,967	341	7,653	13,974	1.6%	34.8%	63.6%
WD-2556 - Baden and San Pedro Valve Lot Impr	19,939	4,570	10,634	4,735	22.9%	53.3%	23.7%
WD-2622 - San Francisco Groundwater Supply P	17,782	4,360	3,453	9,969	24.5%	19.4%	56.1%
WD-2566 - San Antonio Pump Station Upgrades	14,916	101	12,105	2,711	0.7%	81.1%	18.2%
HH-914R - Roselle Crossover Improvements	12,859	0	8,819	4,040	0.0%	68.6%	31.4%
HH-953 - Tesla Portal Protection	11,512	4,989	4,453	2,071	43.3%	38.7%	18.0%
WD-2511 - Standby Power Facilities, Various Loc	11,275	182	6,599	4,494	1.6%	58.5%	39.9%
WD-2640 - Bioregional Habitat Restoration	10,621	1,259	4,182	5,180	11.9%	39.4%	48.8%
WD-2600 - Regional Groundwater Storage and Re	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2809 - San Francisco Groundwater Supply P	3,373	1,109	343	1,922	32.9%	10.2%	57.0%
WD-2589 - Supervisory Control and Data Acquisi	1,498	113	242	1,144	7.6%	16.1%	76.3%
WD-2776 - San Francisco Westside Recycled W	14	11	0	3	77.8%	0.0%	22.2%
<b>Total WSIP PLA</b>	<b>8,125,309</b>	<b>558,069</b>	<b>3,487,331</b>	<b>4,079,910</b>	<b>6.9%</b>	<b>42.9%</b>	<b>50.2%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

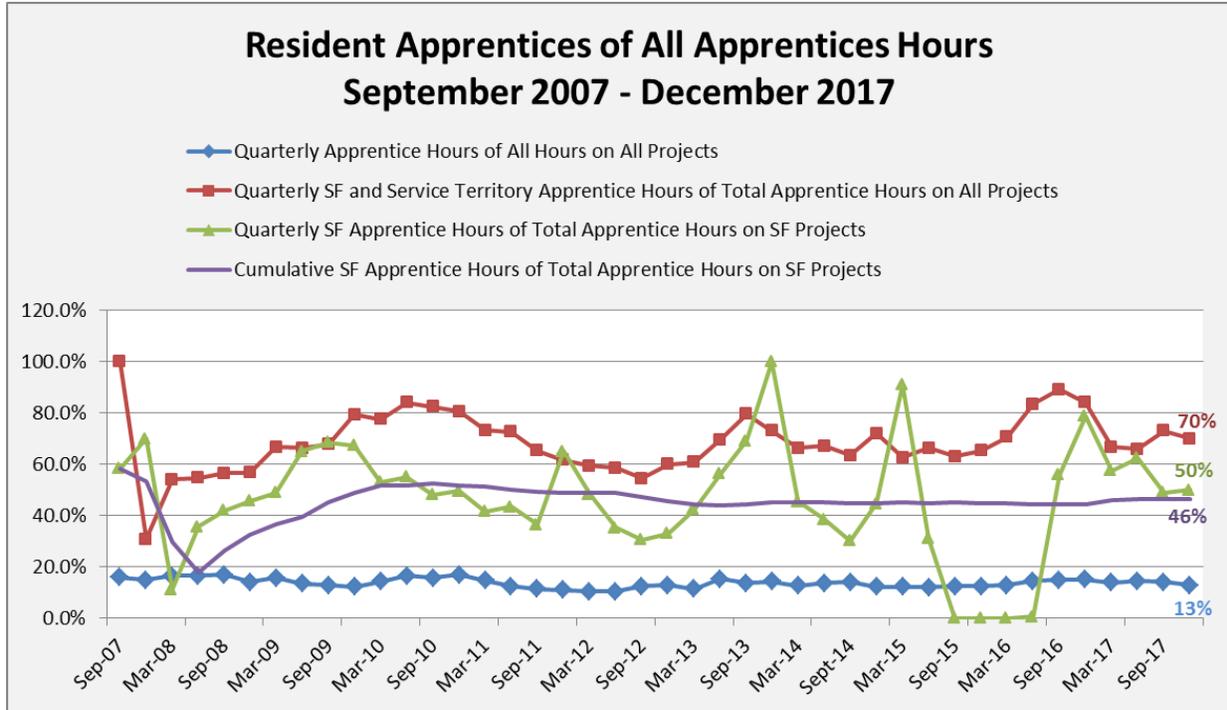
Through the end of the current quarter, 13.4% of craft hours in apprenticeable trades have been worked by apprentices. 17% of apprentice hours were worked by San Francisco residents and 56% were worked by residents of the Regional Service Territory, or 73% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SPPUCST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A- OPERATING ENGINEER (HEAVY AND HIGHWAY)	1,021,386	20,663	3,912	11,459	5,293	2.0%	0.4%	1.1%	18.9%	55.6%	25.6%
A- CARPENTER AND RELATED TRADES	7,13,937	111,758	27,805	53,431	30,422	15.7%	3.9%	7.5%	25.0%	47.8%	27.2%
A- TUNNEL WORKER (LABORER)	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A- OPERATING ENGINEER	595,206	178,228	25,957	80,628	71,644	29.9%	4.4%	13.5%	14.6%	45.2%	40.2%
A- ELECTRICIAN	450,701	83,001	9,520	58,003	15,479	18.4%	2.1%	12.9%	11.5%	69.9%	18.6%
A- PLUMBER	415,787	114,522	32,748	56,070	25,703	27.5%	7.9%	13.5%	28.6%	49.0%	22.4%
A- IRON WORKER	263,689	58,421	12,179	25,098	21,145	22.2%	4.6%	9.5%	20.8%	43.0%	36.2%
A- FILE DRIVER (CARPENTER)	174,928	17,212	4,451	8,534	4,228	9.8%	2.5%	4.9%	25.9%	49.6%	24.6%
A- PAINTER	144,142	24,951	1,809	6,702	16,440	17.3%	1.3%	4.6%	7.3%	26.9%	65.9%
A- CEMENT MASON	128,008	5,852	3,641	1,059	1,152	4.7%	2.9%	0.8%	62.2%	18.1%	19.7%
A- BOILERMAKER-BLACKSMITH	119,080	2,384	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A- BUILDING/CONSTRUCTION INSPECTOR AND	74,702	2,663	5	1,242	1,416	3.6%	0.0%	1.7%	0.2%	46.6%	53.2%
A- FILE DRIVER (OPERATING ENGINEER - HEAVY)	51,487	30	-	-	30	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%
A- ROOFER	50,016	12,507	1,568	6,249	4,690	25.0%	3.1%	12.5%	12.5%	50.0%	37.5%
A- FIELD SURVEYOR	20,695	668	11	67	590	3.2%	0.1%	0.3%	1.6%	10.0%	88.3%
A- SHEET METAL WORKER	16,814	1,806	16	931	860	10.7%	0.1%	5.5%	0.9%	51.5%	47.6%
A- DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	473	60	293	130	4.0%	0.5%	2.4%	12.7%	59.6%	27.5%
A- BRICKLAYER, BLOCKLAYER	9,574	2,682	82	573	2,027	31.3%	1.0%	6.7%	3.1%	21.3%	75.6%
A- ELECTRICAL UTILITY LINEMAN	6,797	79	-	79	-	1.2%	0.0%	1.2%	0.0%	100.0%	0.0%
A- OPERATING ENGINEER (SPECIAL SINGLE AXLE)	5,828	1,162	-	1,047	115	19.9%	0.0%	18.0%	0.0%	90.1%	9.9%
A- GLAZIER	4,331	584	402	20	142	13.0%	9.3%	0.5%	71.3%	3.5%	25.2%
A- PLASTERER	3,750	347	136	-	211	9.3%	3.6%	0.0%	39.2%	0.0%	60.8%
A- PLASTER TENDER	1,281	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A- SHEET METAL WORKER (HVAC)	1,235	1,071	277	627	168	86.7%	22.4%	50.7%	25.8%	58.5%	15.7%
A- BRICK TENDER	827	24	24	-	-	2.9%	2.9%	0.0%	100.0%	0.0%	0.0%
A- ASBESTOS WORKER, HEAT AND FROST INSULATION	507	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A- CARPET, LINOLEUM, SOFT FLOOR LAYER	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A- TILE SETTER	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	100.0%	0.0%
A- TILE FINISHER	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	100.0%
A- PARKING AND HIGHWAY IMPROVEMENT PAVER	265	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A- METAL ROOFING SYSTEMS INSTALLER	201	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A- TERRAZZO WORKER	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A- MARBLE FINISHER	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A- TERRAZZO FINISHER	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Sub-Total Apprenticeable</b>	<b>4,897,667</b>	<b>641,120</b>	<b>124,741</b>	<b>313,378</b>	<b>203,001</b>	<b>13.1%</b>	<b>2.5%</b>	<b>64%</b>	<b>19.3%</b>	<b>48.9%</b>	<b>31.7%</b>
A- LABORER	2,772,608	287,185	46,521	261,549	79,114	14.0%	1.7%	94%	12.0%	67.5%	20.5%
A-Operating Engineer (COMBINED)	1,673,677	72,751	16,090	36,625	27,027	4.8%	1.0%		20.2%	45.9%	33.9%
<b>Total Apprenticeable</b>	<b>7,670,472</b>	<b>1,028,306</b>	<b>171,061</b>	<b>574,728</b>	<b>282,515</b>	<b>13.4%</b>	<b>2.2%</b>	<b>73%</b>	<b>16.6%</b>	<b>35.9%</b>	<b>27.3%</b>
Total Non-Apprenticeable	454,837										
Total WSIP - Covered by PLA	8,125,309										

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For the three months ending December 31, 2017, 50% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



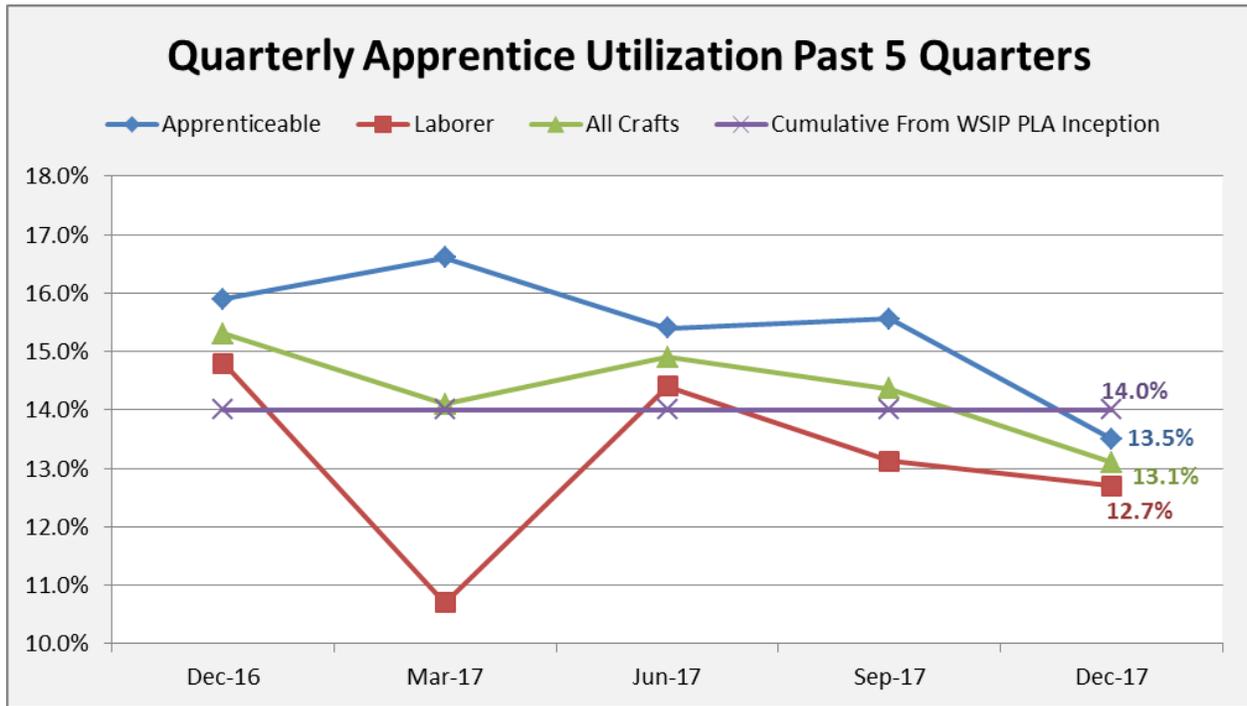
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 14%. This is slightly higher than the 13.4% mentioned in the *Apprentice Utilization by Craft* chart (page 20) because the chart below reflects the Total Apprenticeable and Laborer Hours which is slightly lower than the Total Craft Hours used to calculate the percentage for crafts.

WSIP - Covered by PLA Apprentice Utilization By Project											
Inception Through December 31, 2017											
Project	Apprentice Utilization By Project										
	All Workers Hours					Apprentice Hours			Apprentice Utilization %		
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - Advanced Meter Inf	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
WD-2498 - New Crystal Sprin	117,860	51,381	54,937	11,543	62,923	12,361	5,252	17,612	24.1%	45.5%	28.0%
WD-2798 - San Francisco W	25,771	4,545	-	21,227	25,771	1,076	4,189	5,265	23.7%	19.7%	20.4%
WD-2504 - Stanford Heights	74,300	40,450	-	33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2539 - University Mound	187,032	106,332	1,199	79,502	185,834	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2729 - Fish Passage Fac	118,774	79,092	5,471	34,212	113,303	16,416	3,869	20,285	20.8%	11.3%	17.9%
WD-2573 - Pulgas Balancing	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2627R - Sutro Reservoir	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2641R - Habitat Reserve	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
WD-2668 - Regional Groundw	143,754	90,967	1,079	51,708	142,675	17,440	6,549	23,989	19.2%	12.7%	16.8%
HH-914R - Roselle Crossover	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
DB-116 - Tesla Treatment Fa	141,910	97,738	1,863	42,310	140,407	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2582 - Sunol Valley Wat	462,447	293,884	13,009	155,554	449,438	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2469 - Forest Knolls Pur	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2596 - Harry Tracy Wate	1,013,917	674,623	40,826	298,468	973,091	108,428	35,995	144,423	16.1%	12.1%	14.8%
WD-2651R - Peninsula 2011	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2589 - Supervisory Contr	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2640 - Bioregional Habita	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2552 - Alameda Siphon P	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2555 - Crystal Springs P	127,805	49,126	9,741	68,938	118,064	7,559	5,394	12,953	15.4%	7.8%	11.0%
WD-2548 - Lake Merced Pum	101,050	72,282.50	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
WD-2727 - Peninsula Pipeline	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2575 - San Antonio Back	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2513 - San Andreas Pipe	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2621R - San Francisco C	51,304	30,978	-	20,326	51,304	4,282	1,888	6,170	13.8%	9.3%	12.0%
WD-2501 - Alemany Pump S	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2601 - Crystal Springs /	489,176	300,936	57,401	130,839	431,775	37,806	10,916	48,722	12.6%	8.3%	11.3%
WD-2568 - BDPL Nos. 3&4 C	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2591 - Lower Crystal Spr	98,656	40,891	1,323	56,442	97,333	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2541 - Bay Division Pipe	208,255	89,103	12,808	106,345	195,448	10,026	10,170	20,196	11.3%	9.6%	10.3%
WD-2629 - Seismic Upgrade	133,703	73,079	1,658	58,967	132,046	8,250	13,436	21,685	11.3%	22.8%	16.4%
HH-953 - Tesla Portal Protect	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2551 - Calaveras Dam R	1,257,950	689,879	32,133	535,938	1,225,817	76,226	91,270	167,497	11.0%	17.0%	13.7%
WD-2566 - San Antonio Pum	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
HH-935A - San Joaquin Pipel	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935C - San Joaquin Pipel	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2564 - Harry Tracy Wate	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2623 - Harding Park Rec	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2809 - San Francisco Gr	3,373	740	-	2,634	3,373	64	126	190	8.7%	4.8%	5.6%
WD-2531 - Bay Division Pipe	583,318	164,684	339,239	79,394	244,078	14,153	18,238	32,391	8.6%	23.0%	13.3%
WD-2556 - Baden and San P	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2542 - Bay Division Pipe	288,044	90,616	31,498	165,930	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2652 - Bioregional Habita	110,655	19,428	3,086	88,140	107,568	1,492	19,170	20,661	7.7%	21.7%	19.2%
HH-935B - San Joaquin Pipel	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2511 - Standby Power Fa	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2581 - New Irvington Tun	730,584	546,878	99,798	83,908	630,786	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2622 - San Francisco Gr	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2543 - North University M	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2665 - Bay Division Pipe	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2666 - Bioregional Habita	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2654R - Peninsula Veget	28,075	5,558	189	22,328	27,886	8	1,694	1,702	0.1%	7.6%	6.1%
WD-2529 - Noe Valley Transf	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2600 - Regional Groundw	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2776 - San Francisco W	14	-	-	14	14	-	-	-	0.0%	0.0%	0.0%
<b>WSIP - Covered by PLA (53</b>	<b>8,125,309</b>	<b>4,571,608</b>	<b>781,066</b>	<b>2,772,635</b>	<b>7,344,243</b>	<b>641,122</b>	<b>387,184</b>	<b>1,028,306</b>	<b>14.0%</b>	<b>14.0%</b>	<b>14.0%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending December 31, 2017. The Laborers continue to work a considerable amount of hours and are highlighted below. Percentages compared to last quarter are as follows; the Laborers Apprentice Utilization decreased by 0.4%, the Apprenticeable trades decreased by 2.3% , and the Laborer and Apprenticeable crafts combined (All Crafts) decreased by 1.3%. However, the overall cumulative percentage has remained the same.



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**Jobs Training and Opportunities Program (JTOP)**

As of December 31, 2017, the SFPUC and City staff has referred 644 apprentices and 360 journeypersons to WSIP PLA-covered projects from our community-based partners in Job Training Programs and through the Labor Unions. These 1004 individuals represent 11.7% of the total hours worked and 9.0% of the wages earned.\*

WSIP-PLA Referred Workers By Job Training and Opportunities Program						
Inception Through December 31, 2017						
Referred Apprentice Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Apprentices	% Of Total Apprentice Hours	% Of Total Apprentice Wages
CityBuild Academy	52	38,303	\$ 947,231	2.8%	3.7%	3.5%
CityBuild Referral Services	75	34,715	\$ 904,344	4.1%	3.4%	3.3%
Cypress Mandela Training Center, Inc.	54	82,000	\$ 2,045,492	2.9%	8.0%	7.6%
Helmets to Hardhats	1	3,339	\$ 80,910	0.1%	0.3%	0.3%
Job Corps	1	4,328	\$ 129,666	0.1%	0.4%	0.5%
JobTrain's Project Build	74	91,190	\$ 2,175,834	4.0%	8.9%	8.0%
Northern California Construction and Training, Inc.	7	7,256	\$ 158,831	0.4%	0.7%	0.6%
San Joaquin County Office of Ed. YouthBuild	11	17,631	\$ 379,872	0.6%	1.7%	1.4%
SFPUC	62	55,450	\$ 1,444,496	3.4%	5.4%	5.3%
Sponser	6	33,200	\$ 924,778	0.3%	3.2%	3.4%
Union	301	224,684	\$ 5,808,762	16.3%	21.8%	21.4%
<b>Total Referred Apprentice Workers</b>	<b>644</b>	<b>592,091</b>	<b>\$ 15,000,216</b>	<b>34.9%</b>	<b>57.6%</b>	<b>55.4%</b>
Non-Referred Apprentices	1,202	436,215	\$ 12,086,959	65.1%	42.4%	44.6%
<b>Total Apprentices</b>	<b>1,846</b>	<b>1,028,306</b>	<b>\$ 27,087,175</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Referred Journeyman Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Journey Level Workers	% Of Total Journey Hours	% Of Total Journey Wages
CityBuild Academy	11	8,399	\$ 281,284	0.1%	0.1%	0.1%
CityBuild Referral Services	82	53,122	\$ 2,254,098	0.8%	0.7%	0.8%
Cypress Mandela Training Center, Inc.	16	18,667	\$ 622,414	0.1%	0.3%	0.2%
Helmets to Hardhats	1	13	\$ 498	0.0%	0.0%	0.0%
Job Corps	1	37	\$ 1,489	0.0%	0.0%	0.0%
JobTrain's Project Build	15	18,274	\$ 569,742	0.1%	0.3%	0.2%
Northern California Construction and Training, Inc.	1	1,640	\$ 42,809	0.0%	0.0%	0.0%
San Joaquin County Office of Ed. YouthBuild	1	312	\$ 7,924	0.0%	0.0%	0.0%
SFPUC	32	44,420	\$ 1,536,836	0.3%	0.6%	0.5%
Sponser	2	7,997	\$ 301,774	0.0%	0.1%	0.1%
Union	198	208,480	\$ 7,863,375	1.9%	2.9%	2.7%
<b>Total Referred Journeyman Workers</b>	<b>360</b>	<b>361,358</b>	<b>\$ 13,482,245</b>	<b>3.4%</b>	<b>5.1%</b>	<b>4.7%</b>
Non-Referred Journeypersons	10,341	6,735,645	\$ 276,197,909	96.6%	94.9%	95.3%
<b>Total Journeypersons</b>	<b>10,701</b>	<b>7,097,003</b>	<b>\$ 289,680,154</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Total Workforce						
<b>Total Referred Workers ( J+A )</b>	<b>903</b>	<b>953,450</b>	<b>\$ 28,482,461</b>	<b>7.3%</b>	<b>11.7%</b>	<b>9.0%</b>
All Non-Referred Workers						
All Non-Referred Workers	11,393	7,171,860	\$ 288,284,869	92.7%	88.3%	91.0%
<b>Total Workforce</b>	<b>12,296</b>	<b>8,125,309</b>	<b>\$ 316,767,330</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Note: Because of the statistics method's distinction, the result of the worker count in this report is differ from other reports.

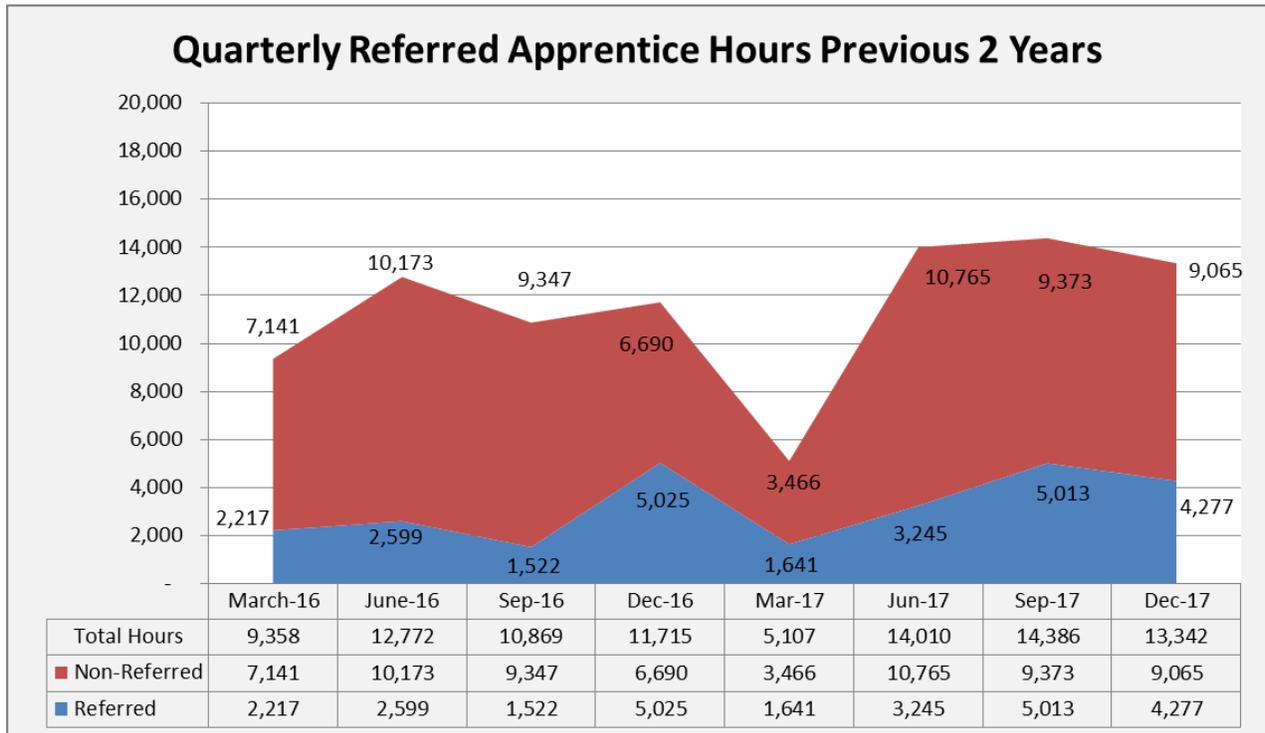
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through December 31, 2017									
Project	Total Craft Hours			Referred Hours			Referred Utilization %		
	Total Hours	Total Apprentice Hours	Total Journey Hours	Referred Apprentice Hours	Referred Journey Hours	Total Referred Hours	Referred Apprentice %	Referred Journey %	Total Referred %
WD-2551 - Calaveras Dam Replacement	1,257,950	167,497	1,090,453	127,346	92,268	219,614	76.0%	8.5%	17.5%
WD-2596 - Harry Tracy Water Treatment	1,013,917	144,423	869,494	81,895	37,310	119,204	56.7%	4.3%	11.8%
WD-2581 - New Irvington Tunnel	730,584	51,750	678,834	37,436	15,218	52,653	72.3%	2.2%	7.2%
WD-2531 - Bay Division Pipelines Reliability	583,318	32,391	550,927	27,949	26,451	54,400	86.3%	4.8%	9.3%
WD-2601 - Crystal Springs / San An	489,176	48,722	440,454	41,550	27,188	68,739	85.3%	6.2%	14.1%
WD-2582 - Sunol Valley Water Treatment	462,447	68,616	393,832	27,121	8,367	35,488	39.5%	2.1%	7.7%
WD-2542 - Bay Division Pipeline No. 5	288,044	26,210	261,834	20,197	4,770	24,967	77.1%	1.8%	8.7%
CS-936 - Advanced Meter Infrastructure	227,027	79,373	147,654	4,405	20,110	24,515	5.5%	13.6%	10.8%
WD-2541 - Bay Division Pipeline No. 5	208,255	20,196	188,059	10,927	5,850	16,777	54.1%	3.1%	8.1%
WD-2539 - University Mound Reservoir	187,032	30,350	156,682	14,817	12,887	27,703	48.8%	8.2%	14.8%
WD-2627R - Sutro Reservoir Rehabilitation	154,545	20,639	133,906	17,701	6,603	24,304	85.8%	4.9%	15.7%
HH-935C - San Joaquin Pipeline System	144,012	17,263	126,749	14,185	8,693	22,877	82.2%	6.9%	15.9%
WD-2668 - Regional Groundwater Storage	143,754	23,989	119,766	8,159	13,484	21,643	34.0%	11.3%	15.1%
DB-116 - Tesla Treatment Facility	141,910	26,991	114,920	7,450	1,884	9,334	27.6%	1.6%	6.6%
WD-2629 - Seismic Upgrade of Bay Division	133,703	21,685	112,018	16,997	4,018	21,015	78.4%	3.6%	15.7%
WD-2552 - Alameda Siphon No. 4 Project	129,485	20,720	108,765	16,749	3,356	20,105	80.8%	3.1%	15.5%
WD-2555 - Crystal Springs Pipeline No. 1	127,805	12,953	114,853	12,193	11,757	23,950	94.1%	10.2%	18.7%
WD-2729 - Fish Passage Facilities W	118,774	20,285	98,490	3,500	2,514	6,014	17.3%	2.6%	5.1%
WD-2498 - New Crystal Springs Bypass	117,860	17,612	100,248	319	291	610	1.8%	0.3%	0.5%
WD-2652 - Bioregional Habitat Restoration	110,655	20,661	89,993	14,823	5,899	20,722	71.7%	6.6%	18.7%
WD-2548 - Lake Merced Pump Station	101,050	10,807	90,244	3,851	10,836	14,687	35.6%	12.0%	14.5%
HH-935B - San Joaquin Pipeline System	100,492	9,304	91,188	5,797	1,923	7,719	62.3%	2.1%	7.7%
WD-2591 - Lower Crystal Springs Dam	98,656	8,685	89,970	6,917	4,086	11,003	79.6%	4.5%	11.2%
HH-935A - San Joaquin Pipeline System	84,483	9,009	75,474	2,977	422	3,399	33.0%	0.6%	4.0%
WD-2513 - San Andreas Pipeline No. 3	83,503	9,311	74,192	8,522	513	9,035	91.5%	0.7%	10.8%
WD-2575 - San Antonio Backup Pipeline	75,263	12,460	62,803	10,106	3,250	13,356	81.1%	5.2%	17.7%
WD-2504 - Stanford Heights Reservoir	74,300	9,891	64,409	1,336	4,241	5,577	13.5%	6.6%	7.5%
WD-2501 - Alemany Pump Station	74,085	7,625	66,460	3,275	1,175	4,450	43.0%	1.8%	6.0%
WD-2727 - Peninsula Pipeline Seismic	69,772	11,858	57,914	8,229	5,687	13,916	69.4%	9.8%	19.9%
WD-2543 - North University Mound System	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2621R - San Francisco Groundwater	51,304	6,170	45,134	1,495	186	1,681	24.2%	0.4%	3.3%
WD-2573 - Pulgas Balancing Reservoir	50,367	7,817	42,550	1,458	1,282	2,740	18.6%	3.0%	5.4%
WD-2568 - BDPL Nos. 3&4 Crossover	47,910	4,538	43,373	2,020	185	2,205	44.5%	0.4%	4.6%
WD-2641R - Habitat Reserve Program	44,018	9,222	34,796	4,946	1,360	6,306	53.6%	3.9%	14.3%
WD-2564 - Harry Tracy Water Treatment	43,049	2,089	40,961	1,329	211	1,540	63.6%	0.5%	3.6%
WD-2654R - Peninsula Vegetation Restoration	28,075	1,702	26,373	1,021	2,200	3,221	60.0%	8.3%	11.5%
WD-2469 - Forest Knolls Pump Station	26,553	2,907	23,646	1,961	52	2,013	67.5%	0.2%	7.6%
WD-2798 - San Francisco Westside Reservoir	25,771	5,265	20,507	1,444	1,411	2,855	27.4%	6.9%	11.1%
WD-2666 - Bioregional Habitat Restoration	23,492	1,843	21,649	906	2,039	2,945	49.2%	9.4%	12.5%
WD-2623 - Harding Park Recycled Water	22,727	1,645	21,082	1,280	3,659	4,938	77.8%	17.4%	21.7%
WD-2651R - Peninsula 2011 Watershed	22,569	3,135	19,435	2,372	3,551	5,923	75.7%	18.3%	26.2%
WD-2529 - Noe Valley Transmission Main	22,511	1,133	21,378	1,133	263	1,396	100.0%	1.2%	6.2%
WD-2665 - Bay Division Pipeline Reliability	21,967	1,909	20,059	1,848	1,135	2,983	96.8%	5.7%	13.6%
WD-2556 - Baden and San Pedro Valves	19,939	2,738	17,201	2,069	98	2,167	75.6%	0.6%	10.9%
WD-2622 - San Francisco Groundwater	17,782	2,092	15,690	1,286	1,596	2,882	61.5%	10.2%	16.2%
WD-2566 - San Antonio Pump Station	14,916	1,798	13,119	931	-	931	51.8%	0.0%	6.2%
HH-914R - Roselle Crossover Improvement	12,859	1,943	10,917	256	32	288	13.2%	0.3%	2.2%
HH-953 - Tesla Portal Protection	11,512	3,255	8,257	3,255	865	4,120	100.0%	10.5%	35.8%
WD-2511 - Standby Power Facilities, V	11,275	626	10,649	-	4	4	0.0%	0.0%	0.0%
WD-2640 - Bioregional Habitat Restoration	10,621	1,615	9,006	1,407	75	1,482	87.1%	0.8%	13.9%
WD-2600 - Regional Groundwater Storage	6,088	296	5,792	296	-	296	100.0%	0.0%	4.9%
WD-2809 - San Francisco Groundwater	3,373	190	3,184	107	-	107	56.2%	0.0%	3.2%
WD-2589 - Supervisory Control and Data	1,498	115	1,383	-	-	-	0.0%	0.0%	0.0%
WD-2776 - San Francisco Westside Reservoir	14	-	14	-	3	3	0.0%	22.2%	22.2%
<b>Total WSIP PLA</b>	<b>8,125,309</b>	<b>1,028,306</b>	<b>7,097,003</b>	<b>592,091</b>	<b>361,358</b>	<b>953,450</b>	<b>57.6%</b>	<b>5.1%</b>	<b>11.7%</b>

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The following chart summarizes *Referred and Non-referred Apprentices Quarterly Hours Earned* on all WSIP PLA-covered projects over the past eight quarters. As the WSIP PLA program continues to near completion there are fewer opportunities to refer workers to the projects and less hours worked overall. With 4,277 referred hours during the quarter, referred apprentices represented 32% of the apprentice hours this quarter.



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**Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,386** pre-employment tests have been administered as of December 31, 2017 to people who were cleared to work. 193 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.34%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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<b>WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 12/31/2017	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	1,777
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	259
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	136
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	96
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Skyl	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bav Division Pipeline No. 5, Cordilleras Microtunnel	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulch Grasslan	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,386</b>

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (Elation Systems, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. Elation Systems' electronic certified payrolls are used to produce the employment data included in this report.



HETCH HETCHY

WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

**Quarterly Report  
Quarter Ended March 31, 2018  
(Third Quarter FY 2017-2018)**

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San Francisco Public Utilities Commission  
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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-four (54) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.162 billion in original contract award through March 31, 2018.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-four (54) construction contracts with a value of \$2.162 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 13,587 construction workers were employed for 8,177,015 hours and earned wages of \$318,835,738 on WSIP PLA-covered projects.
- 1,171 San Francisco residents worked 563,184 hours and earned \$20,891,008 on WSIP PLA-covered projects representing 7% of covered hours and 271 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 6,025 residents of the Regional Service Territory earned wages of \$133,735,826 and worked 3,504,377 hours, representing 43% of covered hours and 1,685 full-time equivalent worker years.
- 14,451 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of March 31, 2018. 194 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through March 31, 2018			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,587	8,177,015	\$ 318,835,738	3,931
San Francisco	1,171	563,184	\$ 20,891,008	271
SFPUC Service Territory	6,025	3,504,377	\$ 133,735,826	1,685
Outside	6,391	4,109,455	\$ 164,208,904	1,976

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Construction Activity Highlights – Quarter Ending March 31, 2018

**Contracting:**

- There was no contract awarded during the reporting period.

**Employment:**

- 350 construction workers were employed for 47,426 hours and earned wages of \$1,896,642 on WSIP PLA-covered projects.
- 43 San Francisco residents worked 5,131 hours and earned wages of \$199,764 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 119 residents of the Regional Service Territory worked 16,264 hours and earned wages of \$660,768 on WSIP PLA-covered projects.
- 65 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and 1 individual was prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending March 31, 2018			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	350	47,426	\$ 1,896,642	23
San Francisco	43	5,131	\$ 199,764	2
SFPUC Service Territory	119	16,264	\$ 660,768	8
Outside	188	26,031	\$ 1,036,110	13

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40 hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through March 31, 2018					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facility	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Watershed	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J. Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood Point	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well Drilling	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andreas	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constmction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Project	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J. Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Aleman Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 54 Projects</b>					<b>\$ 2,162,341,320</b>

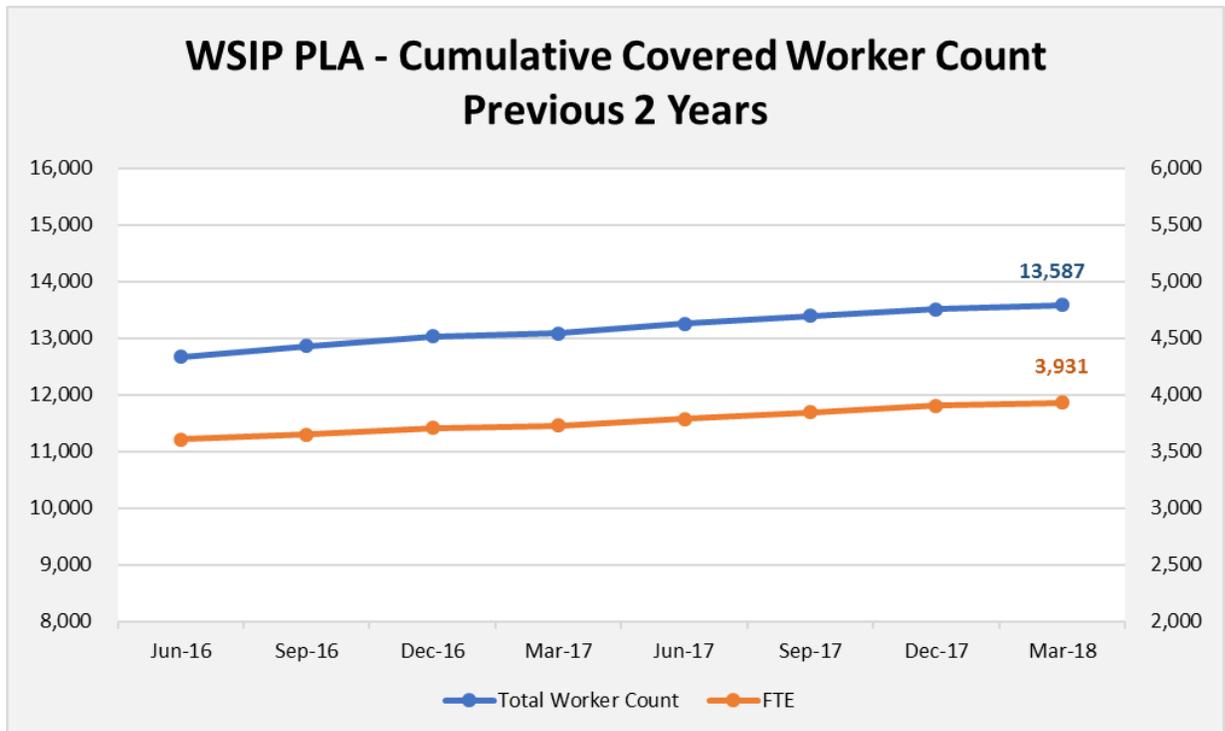
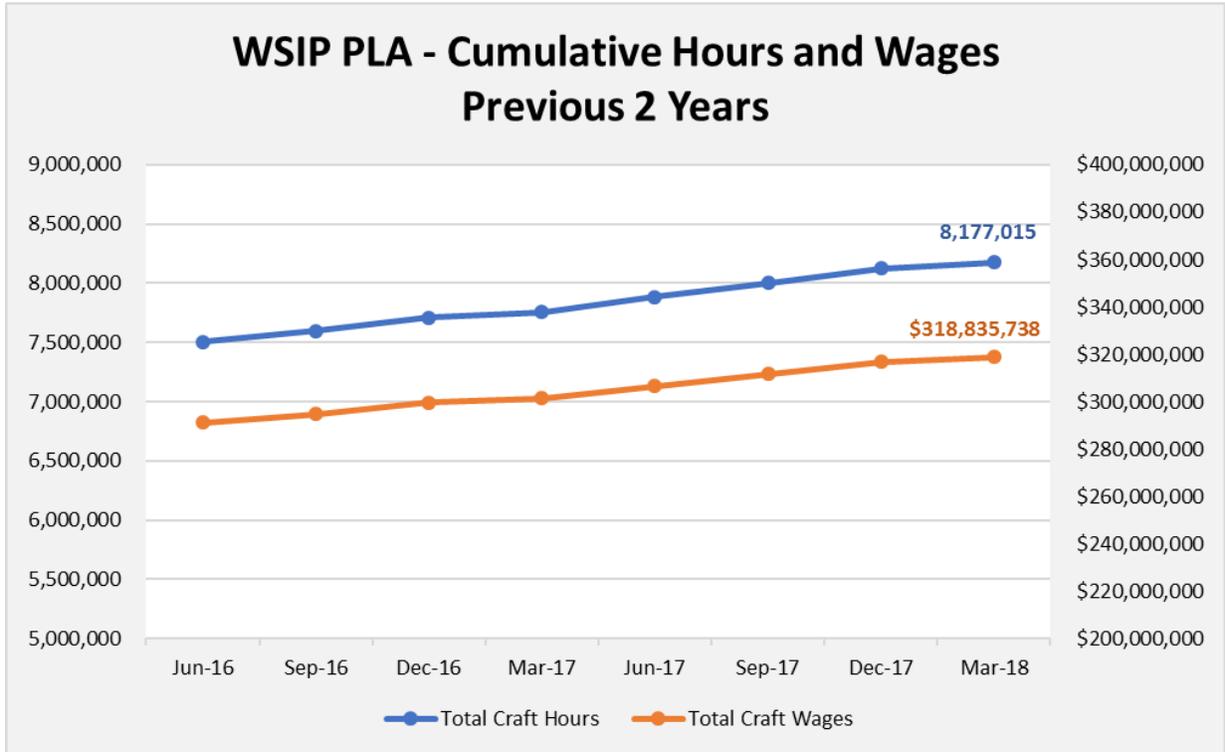
\* indicates projects located in San Francisco

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**Summary Charts**

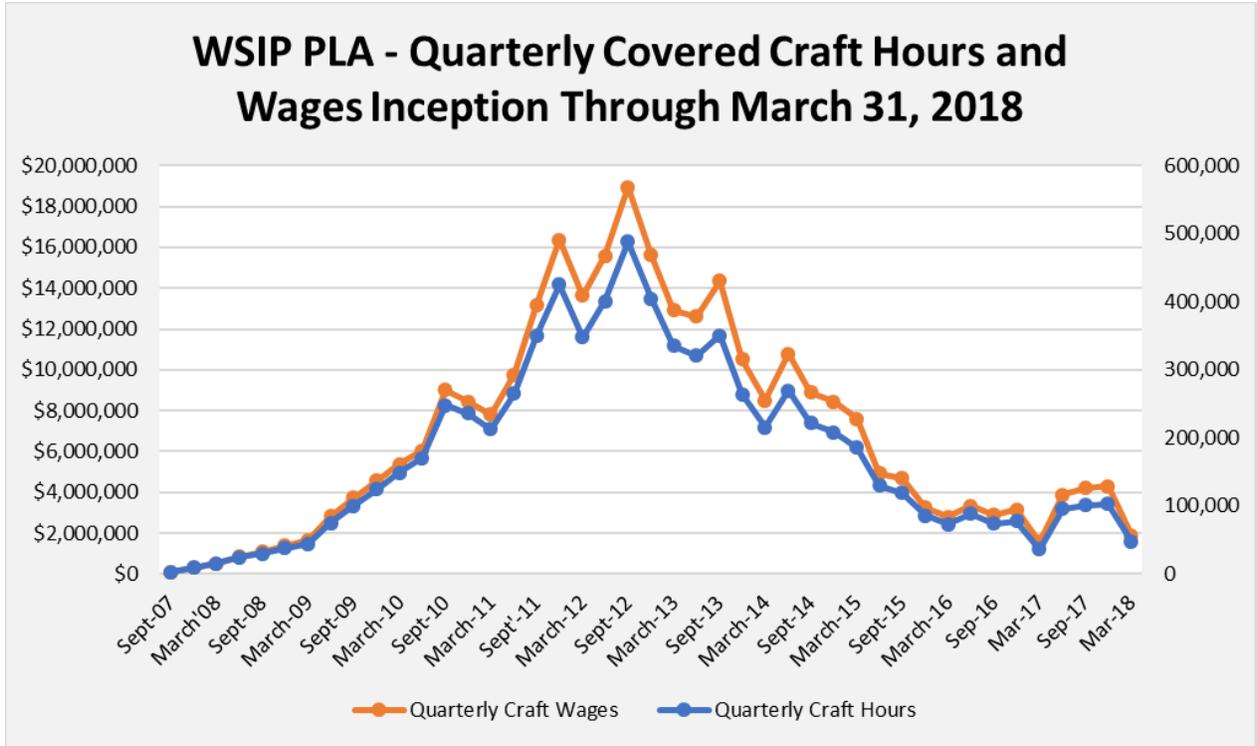
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending March 31, 2018; 13,587 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,177,015 craft hours and \$318,835,738 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

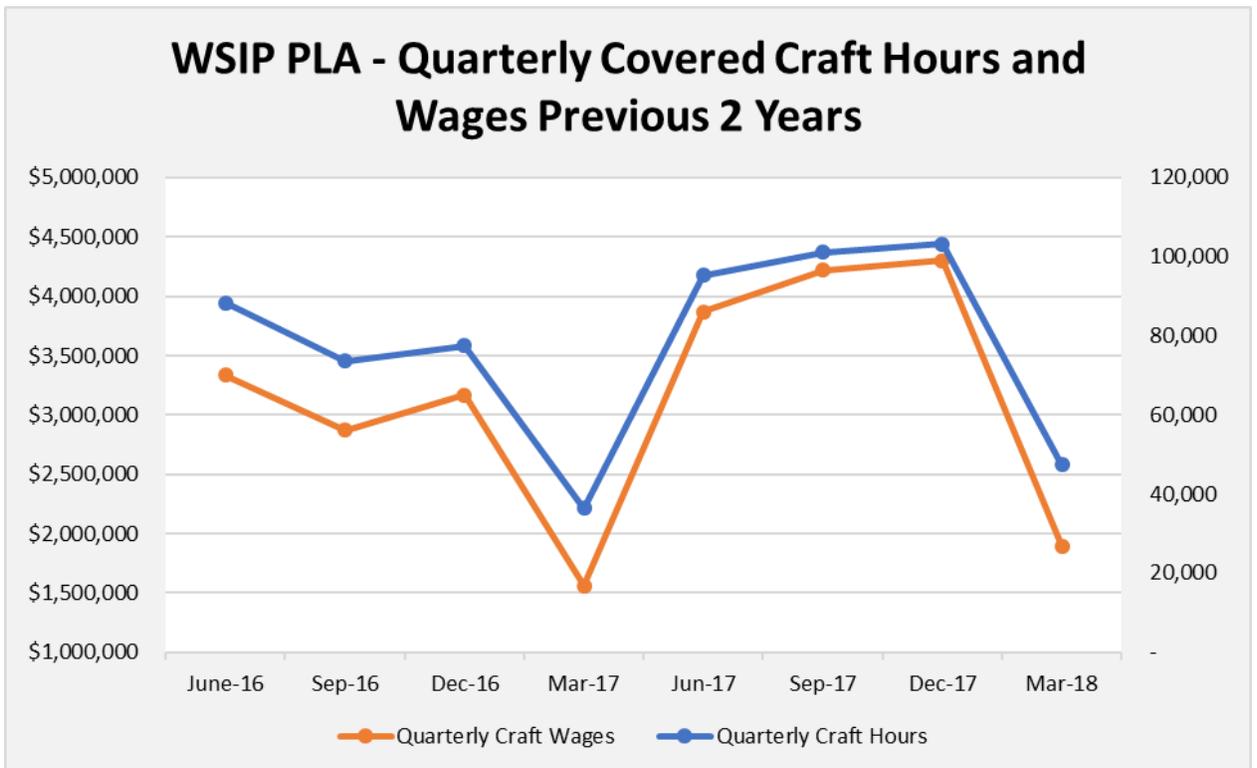


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of March 31, 2018, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 32 craft areas.

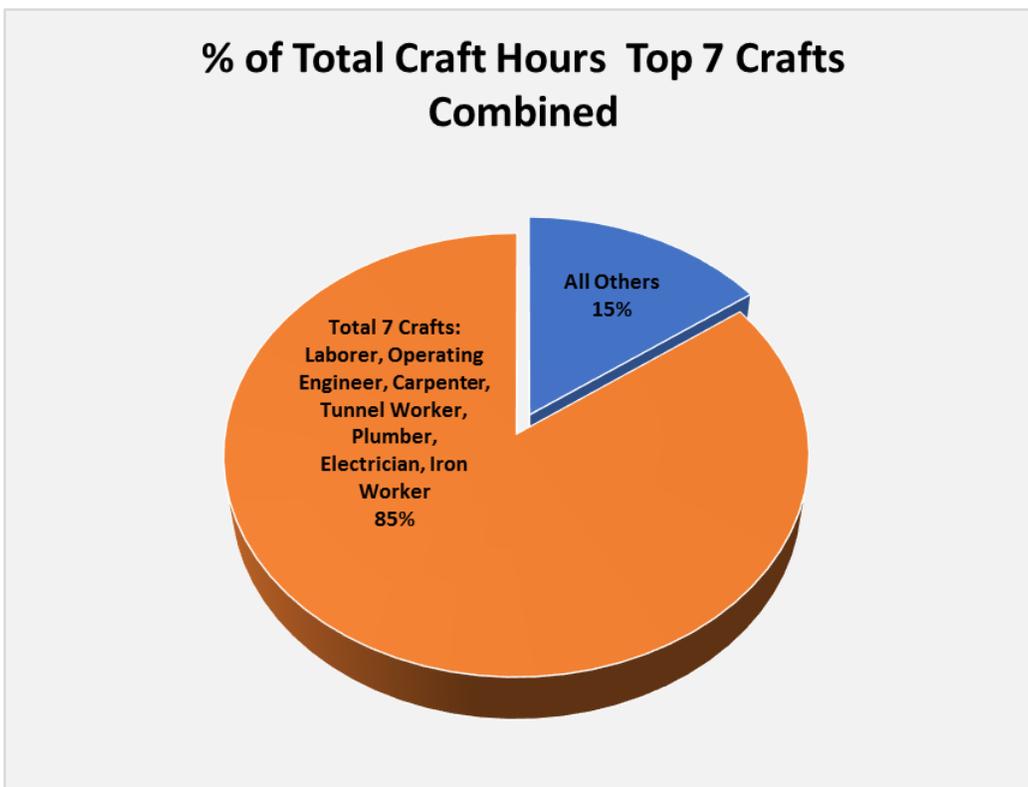
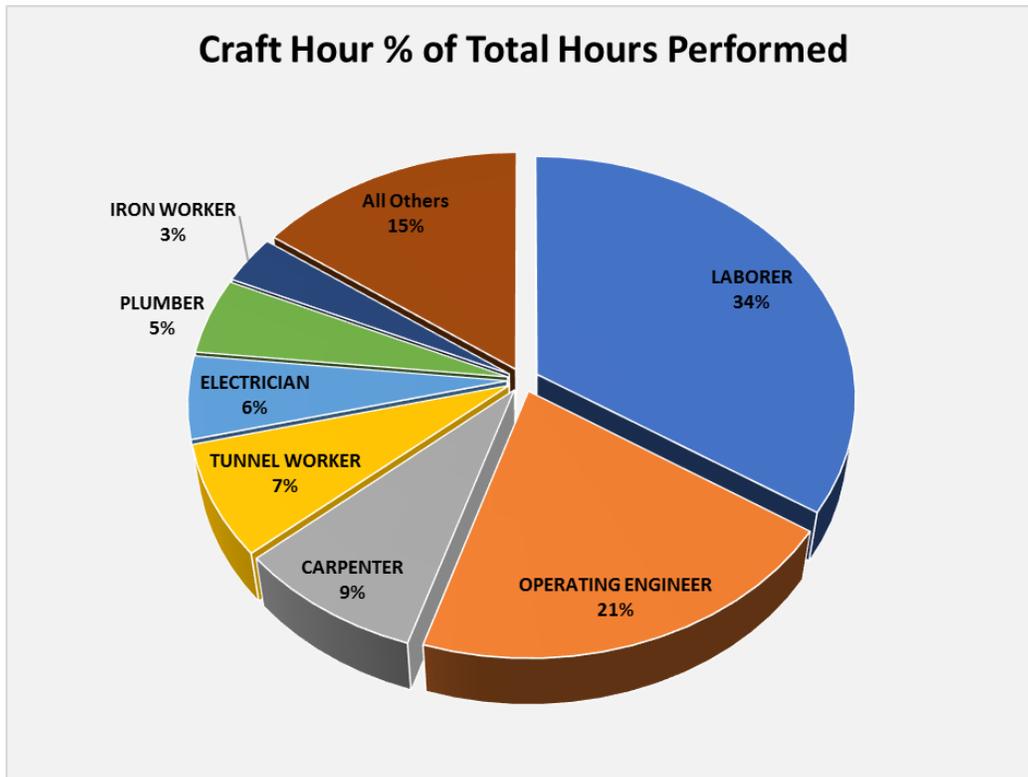
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through March 31, 2018					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,801,694	\$ 85,695,510	34.3%	26.9%	1,347
OPERATING ENGINEER (Combined)	1,685,333	\$ 68,428,760	20.6%	21.5%	810
CARPENTER AND RELATED TRADES	716,933	\$ 29,981,192	8.8%	9.4%	345
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	7.5%	8.1%	295
ELECTRICIAN	453,005	\$ 23,862,646	5.5%	7.5%	218
PLUMBER	416,251	\$ 19,442,306	5.1%	6.1%	200
IRON WORKER	264,225	\$ 8,955,081	3.2%	2.8%	127
<b>Top 7 Sub-Total</b>	<b>6,950,405</b>	<b>\$ 262,257,925</b>	<b>85.0%</b>	<b>82.3%</b>	<b>3,342</b>
PILE DRIVER (CARPENTER)	176,062	\$ 9,340,326	2.2%	2.9%	85
PAINTER	144,424	\$ 5,446,978	1.8%	1.7%	69
CEMENT MASON	125,798	\$ 4,385,715	1.5%	1.4%	60
BOILERMAKER-BLACKSMITH	119,088	\$ 6,266,247	1.5%	2.0%	57
BUILDING/CONSTRUCTION INSPECTOR	76,459	\$ 3,059,178	0.9%	1.0%	37
ROOFER	50,016	\$ 1,700,057	0.6%	0.5%	24
FIELD SURVEYOR	20,727	\$ 825,383	0.3%	0.3%	10
SHEET METAL WORKER	16,814	\$ 811,468	0.2%	0.3%	8
DRYWALL INSTALLER/LATHER (CARPE	11,886	\$ 508,456	0.1%	0.2%	6
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	0.1%	0.1%	4
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	0.1%	0.1%	3
GLAZIER	4,331	\$ 187,483	0.1%	0.1%	2
PLASTERER	3,750	\$ 132,027	0.0%	0.0%	2
PLASTER TENDER	1,281	\$ 42,303	0.0%	0.0%	1
SHEET METAL WORKER (HVAC)	1,235	\$ 40,800	0.0%	0.0%	1
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMEN	732	\$ 23,727	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROS	507	\$ 28,166	0.0%	0.0%	0
CARPET, LINOLEUM, SOFT FLOOR LAY	354	\$ 15,964	0.0%	0.0%	0
TILE SETTER	351	\$ 12,929	0.0%	0.0%	0
TILE FINISHER	277	\$ 5,836	0.0%	0.0%	0
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	0.0%	0.0%	0
TERRAZZO WORKER	199	\$ 8,163	0.0%	0.0%	0
MARBLE FINISHER	40	\$ 1,342	0.0%	0.0%	0
TERRAZZO FINISHER	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticable Sub-Total</b>	<b>770,730</b>	<b>\$ 33,631,096</b>	<b>9.4%</b>	<b>10.5%</b>	<b>371</b>
<b>Total Non-Apprenticeable</b>	<b>455,880</b>	<b>\$ 22,946,717</b>	<b>5.6%</b>	<b>7.2%</b>	<b>219</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,177,015</b>	<b>\$ 318,835,738</b>	<b>100.0%</b>	<b>100.0%</b>	<b>3,931</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of March 31, 2018. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 71% of craft hours worked on PLA-covered projects.



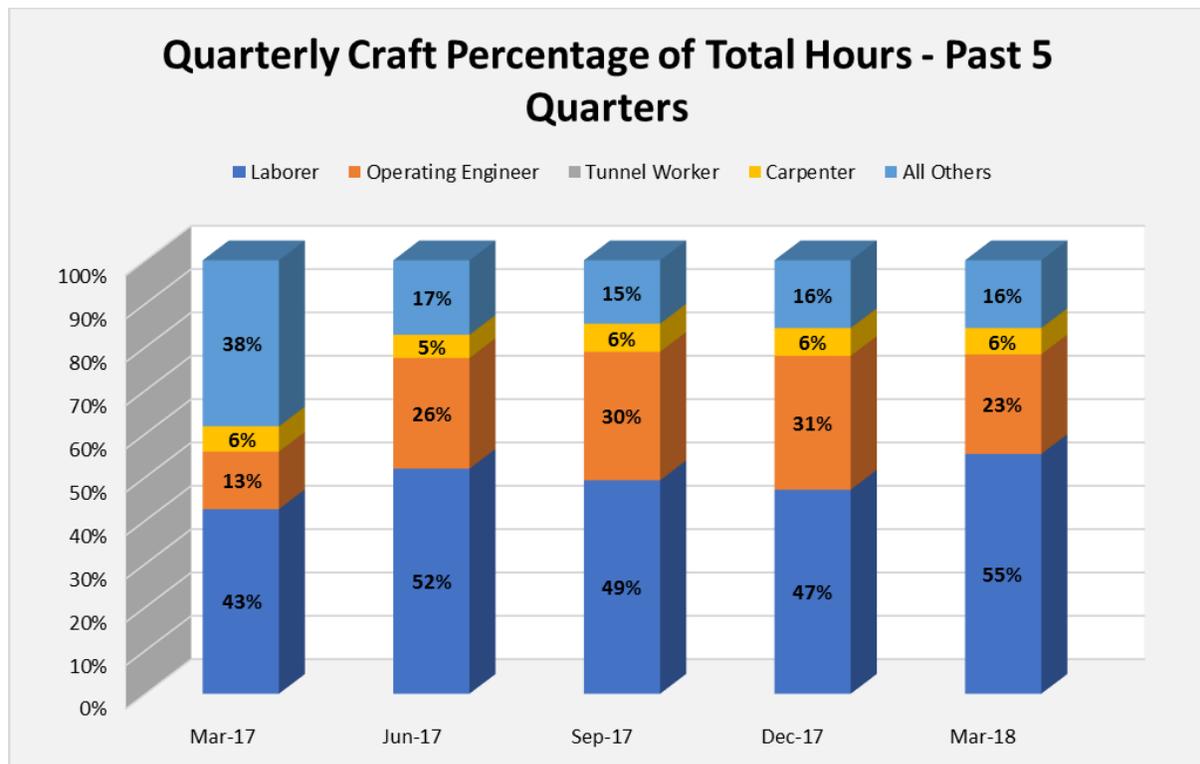
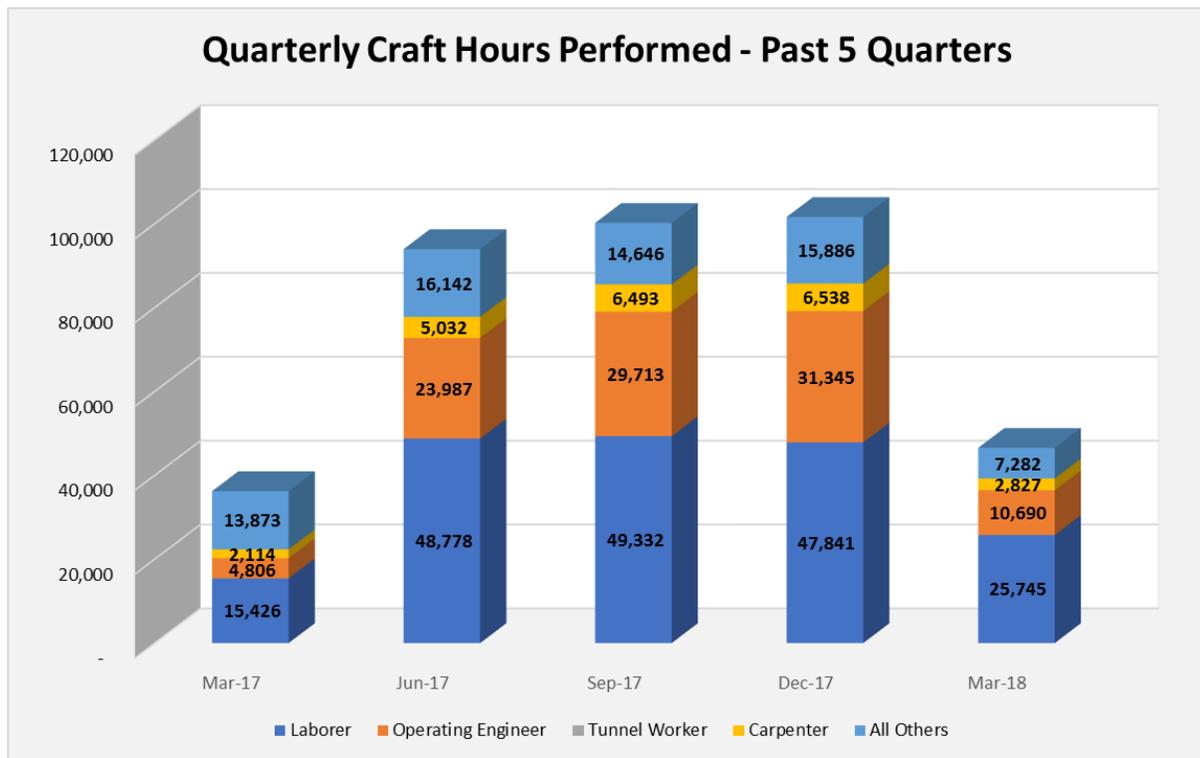
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 3-31-2018 Hours	Quarter Ending 3-31-2018 Wages
LABORER	2,801,694	\$ 85,695,510	25,745	\$ 901,971
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	1,026,748	\$ 42,769,127	4,904	\$ 231,238
OPERATING ENGINEER	601,090	\$ 23,204,380	5,603	\$ 253,478
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY WORK)	51,487	\$ 2,170,668	-	\$ -
OPERATING ENGINEER (SPECIAL SINGLE AND SECOND SHIFT)	6,010	\$ 284,585	184	\$ 7,686
<b>OPERATING ENGINEER (COMBINED)</b>	<b>1,685,333</b>	<b>\$ 68,428,760</b>	<b>10,690</b>	<b>\$ 492,402</b>
CARPENTER AND RELATED TRADES	716,933	\$ 29,981,192	2,827	\$ 135,308
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	-	\$ -
ELECTRICIAN	453,005	\$ 23,862,646	2,304	\$ 118,790
PLUMBER	416,251	\$ 19,442,306	464	\$ 25,247
IRON WORKER	264,225	\$ 8,955,081	536	\$ 20,523
PILE DRIVER (CARPENTER)	176,062	\$ 9,340,326	1,136	\$ 53,165
PAINTER	144,424	\$ 5,446,978	282	\$ 11,569
CEMENT MASON	125,798	\$ 4,385,715	779	\$ 27,285
BOILERMAKER-BLACKSMITH	119,088	\$ 6,266,247	8	\$ 344
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS	76,459	\$ 3,059,178	1,742	\$ 68,115
ROOFER	50,016	\$ 1,700,057	-	\$ -
FIELD SURVEYOR	20,727	\$ 825,383	32	\$ 1,033
SHEET METAL WORKER	16,814	\$ 811,468	-	\$ -
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	-	\$ -
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	-	\$ -
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	-	\$ -
GLAZIER	4,331	\$ 187,483	-	\$ -
PLASTERER	3,750	\$ 132,027	-	\$ -
PLASTER TENDER	1,281	\$ 42,303	-	\$ -
SHEET METAL WORKER (HVAC)	1,235	\$ 40,800	-	\$ -
BRICK TENDER	827	\$ 27,956	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER (LABORER)	732	\$ 23,727	-	\$ -
ASBESTOS WORKER, HEAT AND FROST INSULATOR	507	\$ 28,166	-	\$ -
CARPET, LINOLEUM, SOFT FLOOR LAYER	354	\$ 15,964	-	\$ -
TILE SETTER	351	\$ 12,929	-	\$ -
TILE FINISHER	277	\$ 5,836	-	\$ -
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	-	\$ -
TERRAZZO WORKER	199	\$ 8,163	-	\$ -
MARBLE FINISHER	40	\$ 1,342	-	\$ -
TERRAZZO FINISHER	4	\$ 160	-	\$ -
<b>Total Apprenticable</b>	<b>7,721,136</b>	<b>\$ 295,889,021</b>	<b>46,543</b>	<b>\$ 1,855,752</b>
<b>Non-Apprenticeable</b>				
ASBESTOS REMOVAL WORKER (LABORER)	17,057	\$ 431,301	-	\$ -
DREDGER OPERATING ENGINEER	831	\$ 33,307	-	\$ -
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)	97,725	\$ 7,100,588	-	\$ -
IRONWORKER (DB)	80	\$ 2,772	-	\$ -
LANDSCAPE MAINTENANCE LABORER	1,691	\$ 39,705	-	\$ -
OPERATING ENGINEER (BUILDING CONSTRUCTION)	635	\$ 24,481	-	\$ -
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK) (SPECIAL RATE)	95,208	\$ 4,417,947	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER (PAINTER)	265	\$ 8,680	-	\$ -
SLURRY SEAL WORKER	592	\$ 14,870	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER)	1,123	\$ 56,467	-	\$ -
TEAMSTER	132,175	\$ 6,099,933	883	\$ 40,890
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	\$ 291	-	\$ -
TELECOMMUNICATIONS TECHNICIAN	1,160	\$ 37,245	-	\$ -
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001	\$ 35,916	-	\$ -
TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)	1,422	\$ 36,006	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY)	79,393	\$ 3,567,605	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY)	13,201	\$ 585,230	-	\$ -
WATER WELL DRILLER	12,313	\$ 454,372	-	\$ -
<b>Total Non-Apprenticeable</b>	<b>455,880</b>	<b>\$ 22,946,717</b>	<b>883</b>	<b>\$ 40,890</b>
<b>Total Apprenticable</b>	<b>7,721,136</b>	<b>\$ 295,889,021</b>	<b>46,543</b>	<b>\$ 1,855,752</b>
<b>Total WSIP PLA</b>	<b>8,177,015</b>	<b>\$ 318,835,738</b>	<b>47,426</b>	<b>\$ 1,896,642</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

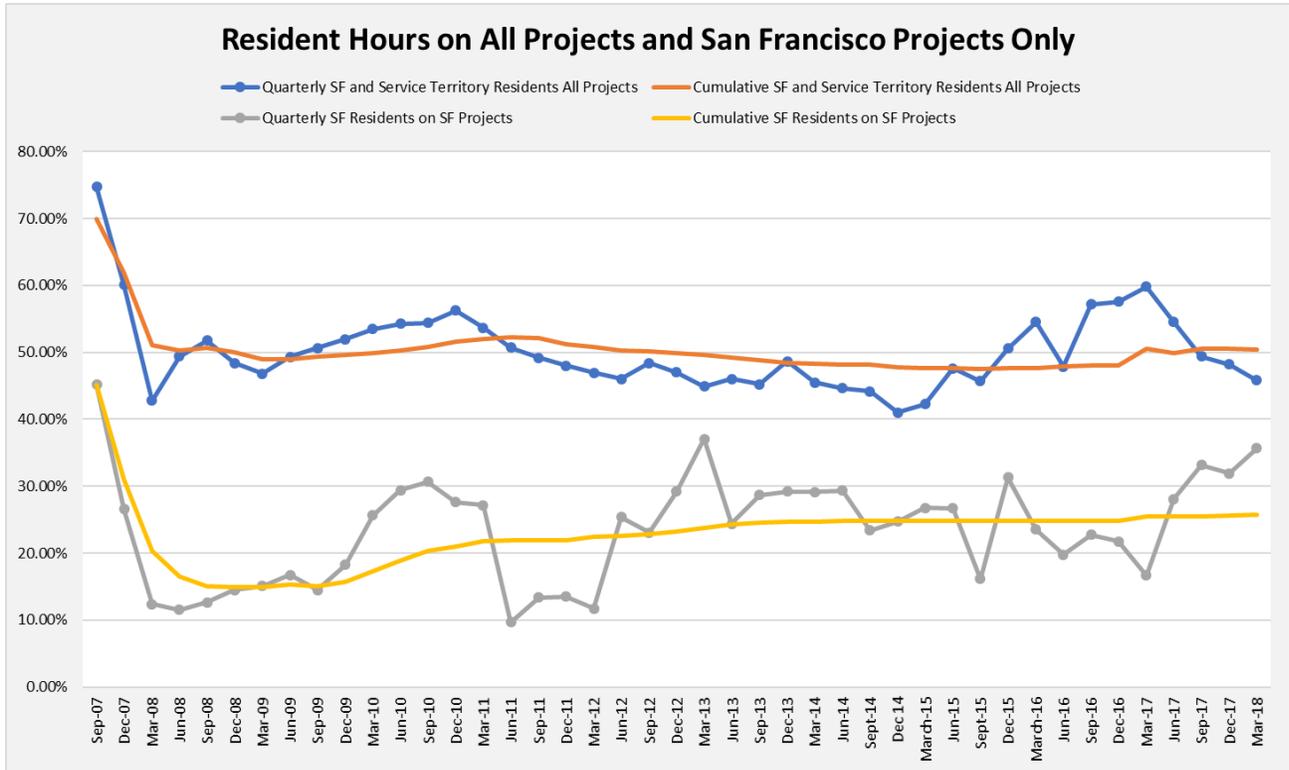


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**Worker Residence on the WSIP PLA**

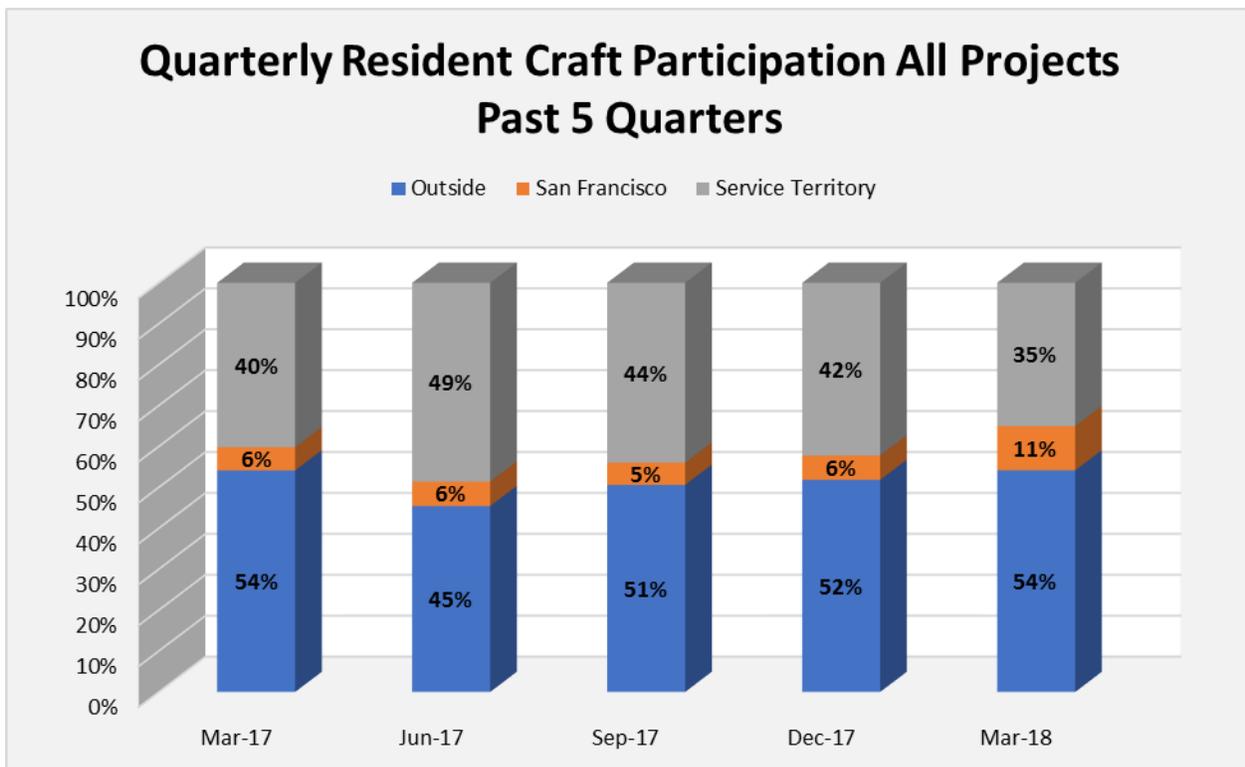
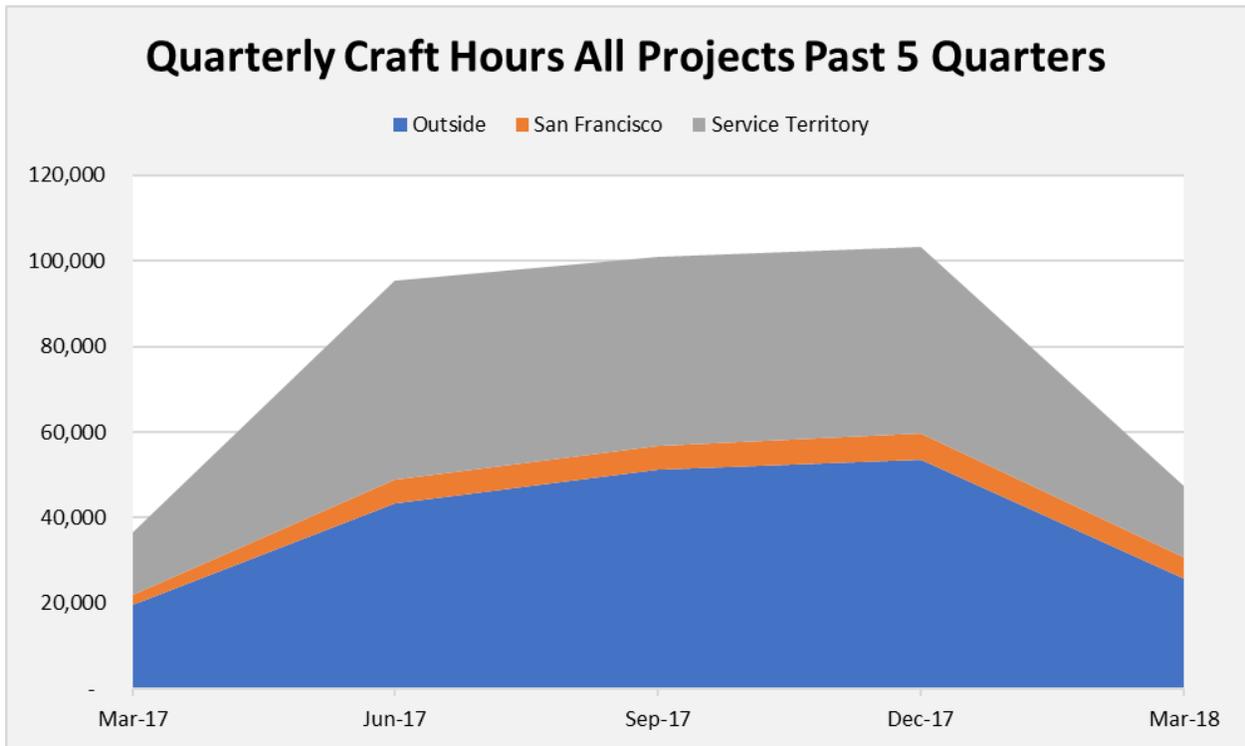
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through March 31, 2018.



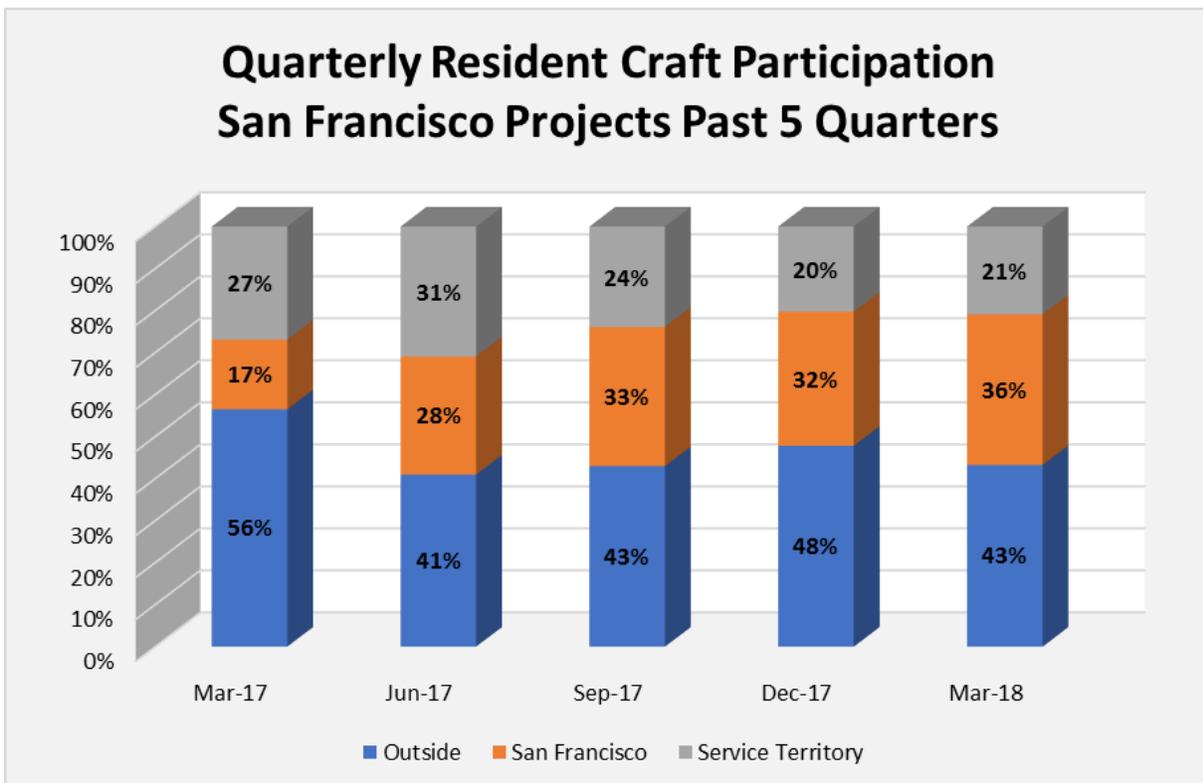
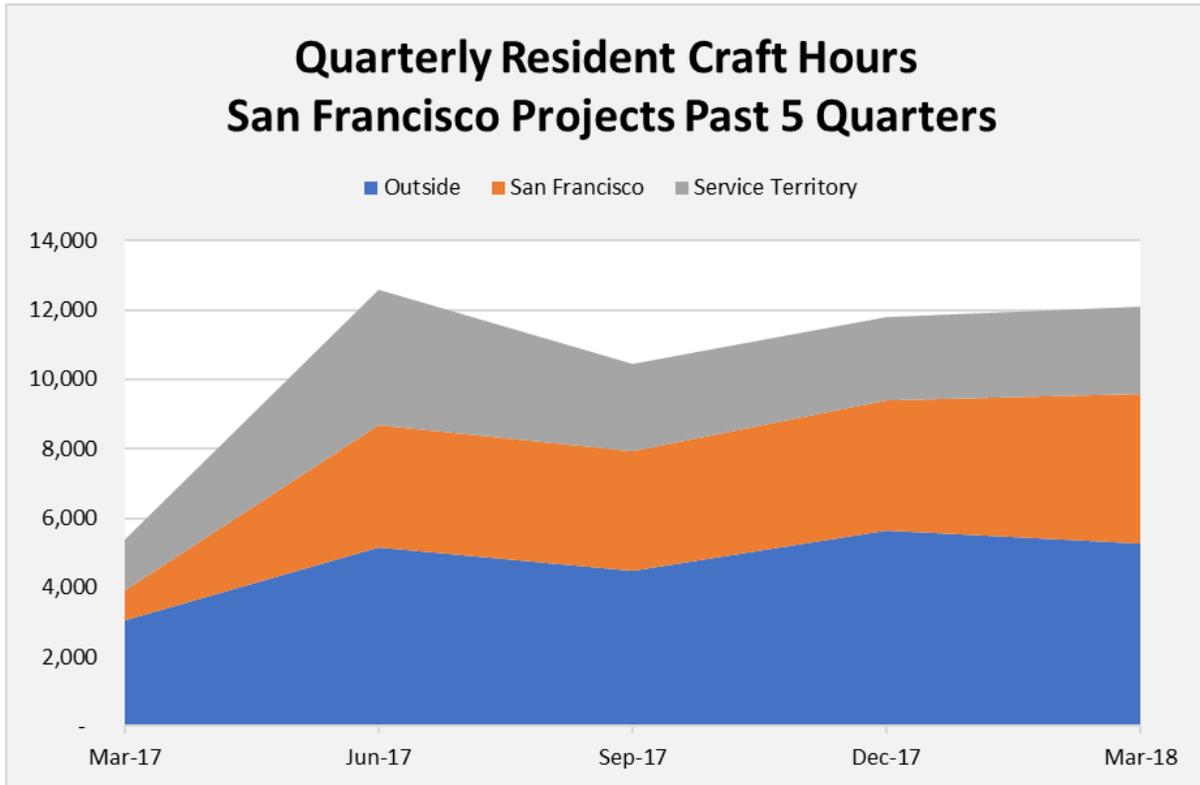
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**Residence on ALL WSIP PLA Projects** - Charted are 54 of the 54 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



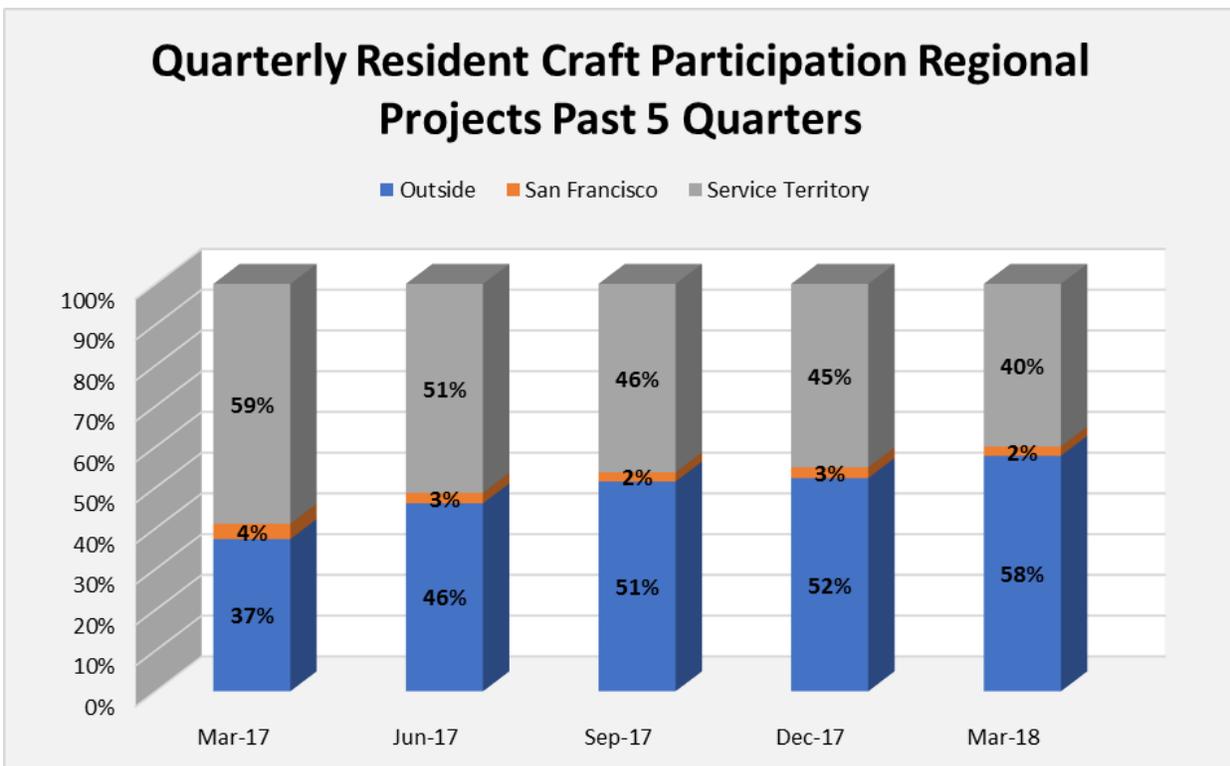
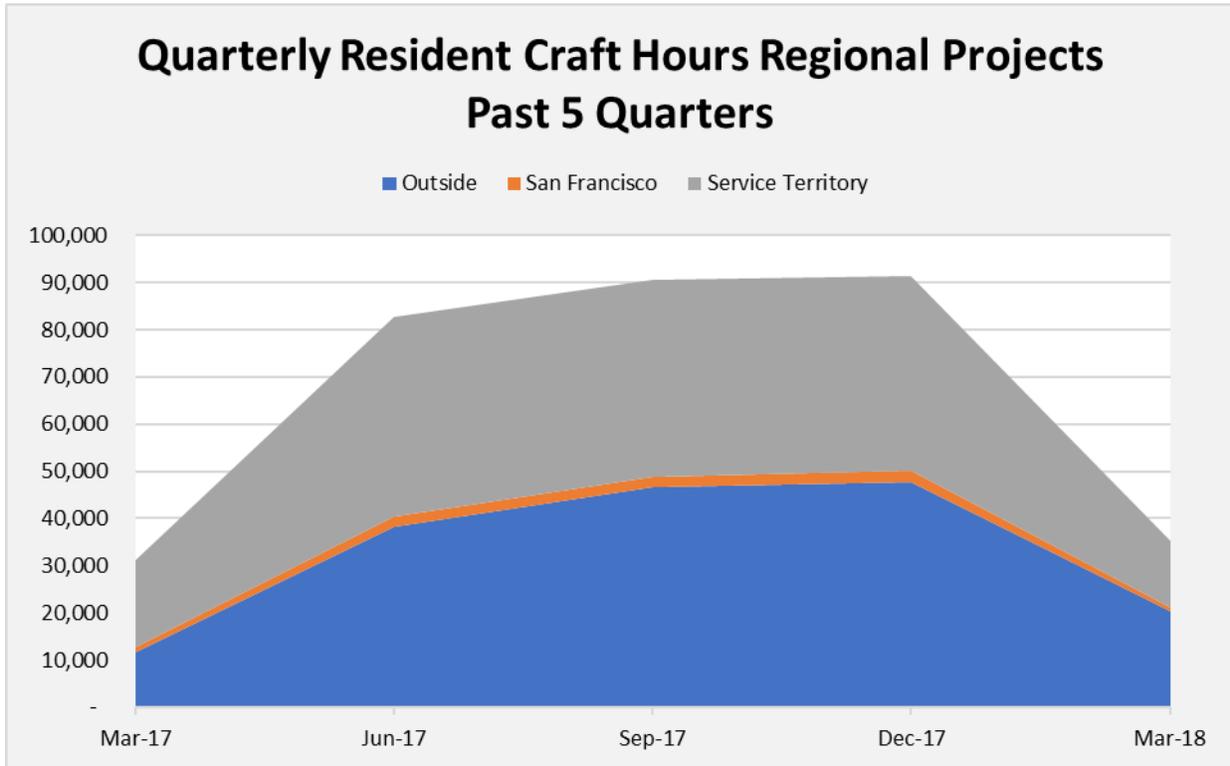
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 38 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through March 31, 2018					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,522,645	\$ 55,930,565	18.6%	2,773	732
Contra Costa	1,077,113	\$ 41,583,548	13.2%	1,853	518
San Mateo	796,906	\$ 31,729,494	9.7%	1,228	383
San Joaquin	768,303	\$ 28,482,587	9.4%	1,160	369
<b>San Francisco</b>	<b>563,184</b>	<b>\$ 20,891,008</b>	<b>6.9%</b>	<b>1,171</b>	<b>271</b>
Santa Clara	462,543	\$ 18,784,311	5.7%	1,216	222
Solano	409,941	\$ 16,154,627	5.0%	777	197
Stanislaus	351,710	\$ 12,771,378	4.3%	590	169
Sacramento	337,443	\$ 13,231,666	4.1%	565	162
Butte	207,481	\$ 8,176,196	2.5%	120	100
Sonoma	178,379	\$ 7,140,422	2.2%	321	86
Tuolumne	91,927	\$ 3,523,618	1.1%	94	44
Calaveras	91,788	\$ 4,006,454	1.1%	79	44
Placer	88,528	\$ 3,608,282	1.1%	128	43
El Dorado	85,552	\$ 3,578,369	1.0%	85	41
Yolo	68,215	\$ 2,630,164	0.8%	91	33
Los Angeles	66,834	\$ 2,853,982	0.8%	140	32
Shasta	64,705	\$ 2,817,070	0.8%	55	31
Clark	63,352	\$ 2,804,384	0.8%	67	30
Napa	55,370	\$ 2,432,754	0.7%	77	27
<b>Top 20 Counties by Hours</b>	<b>7,355,028</b>	<b>\$ 283,231,831</b>	<b>89.9%</b>	<b>12,592</b>	<b>3,536</b>
All Other Counties	821,988	\$ 35,603,907	10.1%	995	395
<b>WSIP-PLA Total</b>	<b>8,177,015</b>	<b>\$ 318,835,738</b>	<b>100.0%</b>	<b>13,587</b>	<b>3,931</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through March 31, 2018					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	97,726	\$ 3,394,762	17.3%	200	47
94124	87,648	\$ 3,304,170	15.5%	237	42
94110	82,725	\$ 2,795,902	14.6%	168	40
94116	71,379	\$ 3,376,160	12.6%	79	34
94134	42,480	\$ 1,292,632	7.5%	111	20
94122	31,668	\$ 1,379,715	5.6%	61	15
94121	25,297	\$ 989,562	4.5%	48	12
94103	25,288	\$ 786,179	4.5%	35	12
94127	20,099	\$ 721,522	3.5%	21	10
94132	8,695	\$ 342,251	1.5%	33	4
94102	8,640	\$ 384,054	1.5%	20	4
94118	8,394	\$ 411,471	1.5%	20	4
94131	8,101	\$ 307,169	1.4%	21	4
94117	7,957	\$ 200,923	1.4%	17	4
94107	7,730	\$ 288,935	1.4%	20	4
94133	5,854	\$ 216,070	1.0%	9	3
94114	4,889	\$ 189,578	0.9%	13	2
94164	3,451	\$ 98,256	0.6%	2	2
94109	3,403	\$ 100,513	0.6%	19	2
94130	3,391	\$ 73,060	0.6%	11	2
94108	3,348	\$ 71,658	0.6%	8	2
94115	1,773	\$ 51,839	0.3%	22	1
94188	1,391	\$ 33,477	0.2%	5	1
94142	1,318	\$ 57,607	0.2%	7	1
94111	661	\$ 14,669	0.1%	3	0
94166	638	\$ 30,298	0.1%	1	0
94104	523	\$ 13,179	0.1%	2	0
94123	496	\$ 24,939	0.1%	2	0
94129	447	\$ 13,106	0.1%	1	0
94140	288	\$ 11,589	0.1%	1	0
94119	255	\$ 7,976	0.0%	1	0
94147	162	\$ 4,785	0.0%	1	0
94105	141	\$ 2,599	0.0%	1	0
94125	29	\$ 994	0.0%	2	0
94158	16	\$ 362	0.0%	2	0
<b>Total</b>	<b>563,184</b>	<b>\$ 20,891,008</b>	<b>100%</b>	<b>1,171</b>	<b>271</b>
<b>WSIP-PLA Total</b>	<b>8,177,015</b>	<b>\$ 318,835,738</b>	<b>-</b>	<b>13,587</b>	<b>3,931</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through March 31, 2018							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
OPERATING ENGINEER (HEAVY A	1,026,748	18,994	420,171	587,583	1.9%	40.9%	57.2%
CARPENTER AND RELATED TRAD	716,933	78,844	313,257	324,833	11.0%	43.7%	45.3%
TUNNEL WORKER (LABORER)	612,964	11,171	249,754	352,040	1.8%	40.8%	57.4%
OPERATING ENGINEER	601,090	48,208	229,615	323,267	8.0%	38.2%	53.8%
ELECTRICIAN	453,005	24,512	267,993	160,501	5.4%	59.2%	35.4%
PLUMBER	416,251	80,894	145,245	190,112	19.4%	34.9%	45.7%
IRON WORKER	264,225	19,657	99,642	144,926	7.4%	37.7%	54.9%
PILE DRIVER (CARPENTER)	176,062	6,526	55,999	113,537	3.7%	31.8%	64.5%
PAINTER	144,424	8,977	18,767	116,680	6.2%	13.0%	80.8%
CEMENT MASON	125,798	5,824	58,452	61,522	4.6%	46.5%	48.9%
BOILERMAKER-BLACKSMITH	119,088	48	27,196	91,844	0.0%	22.8%	77.1%
BUILDING/CONSTRUCTION INSPEC	76,459	3,943	12,008	60,508	5.2%	15.7%	79.1%
PILE DRIVER (OPERATING ENGINE	51,487	499	8,554	42,434	1.0%	16.6%	82.4%
ROOFER	50,016	3,113	28,665	18,238	6.2%	57.3%	36.5%
FIELD SURVEYOR	20,727	1,345	4,131	15,251	6.5%	19.9%	73.6%
SHEET METAL WORKER	16,814	1,940	9,378	5,497	11.5%	55.8%	32.7%
DRYWALL INSTALLER/LATHER (CA	11,886	1,435	3,041	7,411	12.1%	25.6%	62.4%
BRICKLAYER, BLOCKLAYER	8,574	82	4,397	4,095	1.0%	51.3%	47.8%
ELECTRICAL UTILITY LINEMAN	6,797	-	214	6,582	0.0%	3.2%	96.9%
OPERATING ENGINEER (SPECIAL	6,010	47	1,691	4,272	0.8%	28.1%	71.1%
GLAZIER	4,331	1,018	1,424	1,890	23.5%	32.9%	43.6%
PLASTERER	3,750	1,270	958	1,523	33.9%	25.5%	40.6%
PLASTER TENDER	1,281	882	237	163	68.8%	18.5%	12.7%
SHEET METAL WORKER (HVAC)	1,235	277	757	202	22.4%	61.3%	16.4%
BRICK TENDER	827	287	78	462	34.7%	9.4%	55.9%
PARKING AND HIGHWAY IMPROV	732	-	398	334	0.0%	54.4%	45.6%
ASBESTOS WORKER, HEAT AND	507	-	268	239	0.0%	52.9%	47.1%
CARPET, LINOLEUM, SOFT FLOOR	354	6	89	259	1.7%	25.1%	73.2%
TILE SETTER	351	-	344	7	0.0%	98.0%	2.0%
TILE FINISHER	277	-	237	40	0.0%	85.6%	14.4%
METAL ROOFING SYSTEMS INSTA	201	-	201	-	0.0%	100.0%	0.0%
TERRAZZO WORKER	199	-	-	199	0.0%	0.0%	100.0%
MARBLE FINISHER	40	-	40	-	0.0%	100.0%	0.0%
TERRAZZO FINISHER	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticeable</b>	<b>4,919,444</b>	<b>319,794</b>	<b>1,963,202</b>	<b>2,636,448</b>	<b>6.5%</b>	<b>39.9%</b>	<b>53.6%</b>
LABORER	2,801,694	216,114	1,286,266	1,299,314	7.7%	45.9%	46.4%
<b>Non-Apprenticeable</b>							
TEAMSTER	132,175	9,387	75,386	47,402	7.1%	57.0%	35.9%
DRIVER (ON/OFF-HAULING TO/FRO	97,725	16,407	64,761	16,557	16.8%	66.3%	16.9%
OPERATING ENGINEER (HEAVY A	95,208	-	45,352	49,856	0.0%	47.6%	52.4%
TUNNEL/UNDERGROUND (OPERA	79,393	70	45,067	34,257	0.1%	56.8%	43.2%
ASBESTOS REMOVAL WORKER (	17,057	887	2,270	13,900	5.2%	13.3%	81.5%
TUNNEL/UNDERGROUND (OPERA	13,201	-	9,364	3,837	0.0%	70.9%	29.1%
WATER WELL DRILLER	12,313	-	7,536	4,777	0.0%	61.2%	38.8%
LANDSCAPE MAINTENANCE LABO	1,691	360	1,110	221	21.3%	65.6%	13.1%
TREE TRIMMER (HIGH VOLTAGE L	1,422	32	1,191	199	2.3%	83.8%	14.0%
TELECOMMUNICATIONS TECHNIC	1,160	-	1,088	72	0.0%	93.8%	6.2%
STEEL ERECTOR AND FABRICATO	1,123	-	282	841	0.0%	25.1%	74.9%
TRAFFIC CONTROL/LANE CLOSUR	1,001	-	789	212	0.0%	78.8%	21.2%
DREDGER OPERATING ENGINEER	831	-	-	831	0.0%	0.0%	100.0%
OPERATING ENGINEER (BUILDING	635	133	229	273	20.9%	36.1%	43.0%
SLURRY SEAL WORKER	592	-	321	271	0.0%	54.3%	45.7%
PARKING AND HIGHWAY IMPROV	265	-	167	98	0.0%	63.0%	37.0%
IRONWORKER (DB)	80	-	-	80	0.0%	0.0%	100.0%
TEAMSTER (SPECIAL SINGLE SHI	11	-	-	11	0.0%	0.0%	100.0%
<b>Total Non-Apprenticeable</b>	<b>455,880</b>	<b>27,276</b>	<b>254,912</b>	<b>173,692</b>	<b>6.0%</b>	<b>55.9%</b>	<b>38.1%</b>
<b>Total WSIP PLA</b>	<b>8,177,015</b>	<b>563,184</b>	<b>3,504,377</b>	<b>4,109,455</b>	<b>6.9%</b>	<b>42.9%</b>	<b>50.3%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through March 31, 2018							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replacement P	1,281,106	5,528	539,959	735,619	0.4%	42.1%	57.4%
WD-2596 - Harry Tracy Water Treatment P	1,013,917	63,555	381,991	568,371	6.3%	37.7%	56.1%
WD-2581 - New Irvington Tunnel	730,584	3,538	335,744	391,302	0.5%	46.0%	53.6%
WD-2531 - Bay Division Pipelines Reliabil	583,318	18,599	335,644	229,074	3.2%	57.5%	39.3%
WD-2601 - Crystal Springs / San Andreas	489,176	25,360	194,232	269,583	5.2%	39.7%	55.1%
WD-2582 - Sunol Valley Water Treatment	462,447	11,765	202,938	247,744	2.5%	43.9%	53.6%
WD-2542 - Bay Division Pipeline No. 5 - Pe	288,044	2,903	135,042	150,100	1.0%	46.9%	52.1%
CS-936 - Advanced Meter Infrastructure	227,027	72,108	84,621	70,298	31.8%	37.3%	31.0%
WD-2541 - Bay Division Pipeline No. 5 - Ea	208,255	14,163	86,775	107,317	6.8%	41.7%	51.5%
WD-2539 - University Mound Reservoir Nor	187,032	50,004	44,847	92,181	26.7%	24.0%	49.3%
WD-2627R - Sutro Reservoir Rehabilitation	154,545	49,239	39,346	65,960	31.9%	25.5%	42.7%
WD-2668 - Regional Groundwater Storage	147,624	25,621	76,018	45,986	17.4%	51.5%	31.2%
HH-935C - San Joaquin Pipeline System -	144,012	83	82,510	61,420	0.1%	57.3%	42.6%
DB-116 - Tesla Treatment Facility	141,910	2,062	96,192	43,656	1.5%	67.8%	30.8%
WD-2629 - Seismic Upgrade of Bay Divisio	134,433	567	56,634	77,233	0.4%	42.1%	57.5%
WD-2552 - Alameda Siphon No. 4 Project	129,485	1,450	61,738	66,297	1.1%	47.7%	51.2%
WD-2729 - Fish Passage Facilities Within	128,886	1,278	56,494	71,115	1.0%	43.8%	55.2%
WD-2555 - Crystal Springs Pipeline No.2 R	127,805	34,336	35,415	58,054	26.9%	27.7%	45.4%
WD-2498 - New Crystal Springs Bypass (F	117,860	6,825	61,288	49,748	5.8%	52.0%	42.2%
WD-2652 - Bioregional Habitat Restoration	110,655	3,388	49,991	57,276	3.1%	45.2%	51.8%
WD-2548 - Lake Merced Pump Station Ess	101,050	23,185	27,768	50,098	22.9%	27.5%	49.6%
HH-935B - San Joaquin Pipeline System -	100,492	426	45,319	54,747	0.4%	45.1%	54.5%
WD-2591 - Lower Crystal Springs Dam Imp	98,656	5,022	57,594	36,040	5.1%	58.4%	36.5%
HH-935A - San Joaquin Pipeline System -	84,483	158	47,626	36,699	0.2%	56.4%	43.4%
WD-2513 - San Andreas Pipeline No.3 Inst	83,503	6,294	30,974	46,234	7.5%	37.1%	55.4%
WD-2575 - San Antonio Backup Pipeline	75,263	9,125	33,899	32,239	12.1%	45.0%	42.8%
WD-2504 - Stanford Heights Reservoir Seis	74,300	11,120	19,925	43,256	15.0%	26.8%	58.2%
WD-2501 - Alemany Pump Station	74,085	7,565	28,862	37,658	10.2%	39.0%	50.8%
WD-2727 - Peninsula Pipeline Seismic Upg	69,772	14,069	23,830	31,873	20.2%	34.2%	45.7%
WD-2543 - North University Mound System	53,265	10,250	18,206	24,809	19.2%	34.2%	46.6%
WD-2621R - San Francisco Groundwater S	51,943	10,969	12,504	28,470	21.1%	24.1%	54.8%
WD-2573 - Pulgas Balancing Reservoir Str	50,367	5,166	25,129	20,073	10.3%	49.9%	39.9%
WD-2568 - BDPL Nos. 3&4 Crossover Fac	47,910	4,908	15,264	27,738	10.2%	31.9%	57.9%
WD-2641R - Habitat Reserve Program, Hor	44,018	7,592	11,135	25,292	17.2%	25.3%	57.5%
WD-2564 - Harry Tracy Water Treatment P	43,049	7,220	12,879	22,950	16.8%	29.9%	53.3%
WD-2798 - San Francisco Westside Recyc	33,927	12,300	9,273	12,355	36.3%	27.3%	36.4%
WD-2654R - Peninsula Vegetation Remova	29,518	4,702	9,439	15,376	15.9%	32.0%	52.1%
WD-2469 - Forest Knolls Pump Station and	26,553	3,828	8,582	14,143	14.4%	32.3%	53.3%
WD-2666 - Bioregional Habitat Restoration	23,492	46	16,571	6,876	0.2%	70.5%	29.3%
WD-2623 - Harding Park Recycled Water P	22,727	4,530	13,464	4,734	19.9%	59.2%	20.8%
WD-2651R - Peninsula 2011 Watershed Co	22,569	557	11,609	10,403	2.5%	51.4%	46.1%
WD-2529 - Noe Valley Transmission Main	22,511	3,918	7,931	10,662	17.4%	35.2%	47.4%
WD-2665 - Bay Division Pipeline Reliability	21,967	341	7,653	13,974	1.6%	34.8%	63.6%
WD-2556 - Baden and San Pedro Valve Lo	19,939	4,570	10,634	4,735	22.9%	53.3%	23.7%
WD-2622 - San Francisco Groundwater Su	17,782	4,360	3,453	9,969	24.5%	19.4%	56.1%
WD-2566 - San Antonio Pump Station Upg	14,916	101	12,105	2,711	0.7%	81.1%	18.2%
HH-914R - Roselle Crossover Improvement	12,859	0	8,819	4,040	0.0%	68.6%	31.4%
HH-953 - Tesla Portal Protection	11,512	4,989	4,453	2,071	43.3%	38.7%	18.0%
WD-2511 - Standby Power Facilities, Varid	11,275	182	6,599	4,494	1.6%	58.5%	39.9%
WD-2640 - Bioregional Habitat Restoration	10,621	1,259	4,182	5,180	11.9%	39.4%	48.8%
WD-2600 - Regional Groundwater Storage	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2809 - San Francisco Groundwater Su	5,214	1,400	417	3,398	26.8%	8.0%	65.2%
WD-2776 - San Francisco Westside Recyc	1,772	552	329	891	31.2%	18.6%	50.3%
WD-2589 - Supervisory Control and Data A	1,498	113	242	1,144	7.6%	16.1%	76.3%
<b>Total WSIP PLA</b>	<b>8,177,015</b>	<b>563,184</b>	<b>3,504,377</b>	<b>4,109,455</b>	<b>6.9%</b>	<b>42.9%</b>	<b>50.3%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

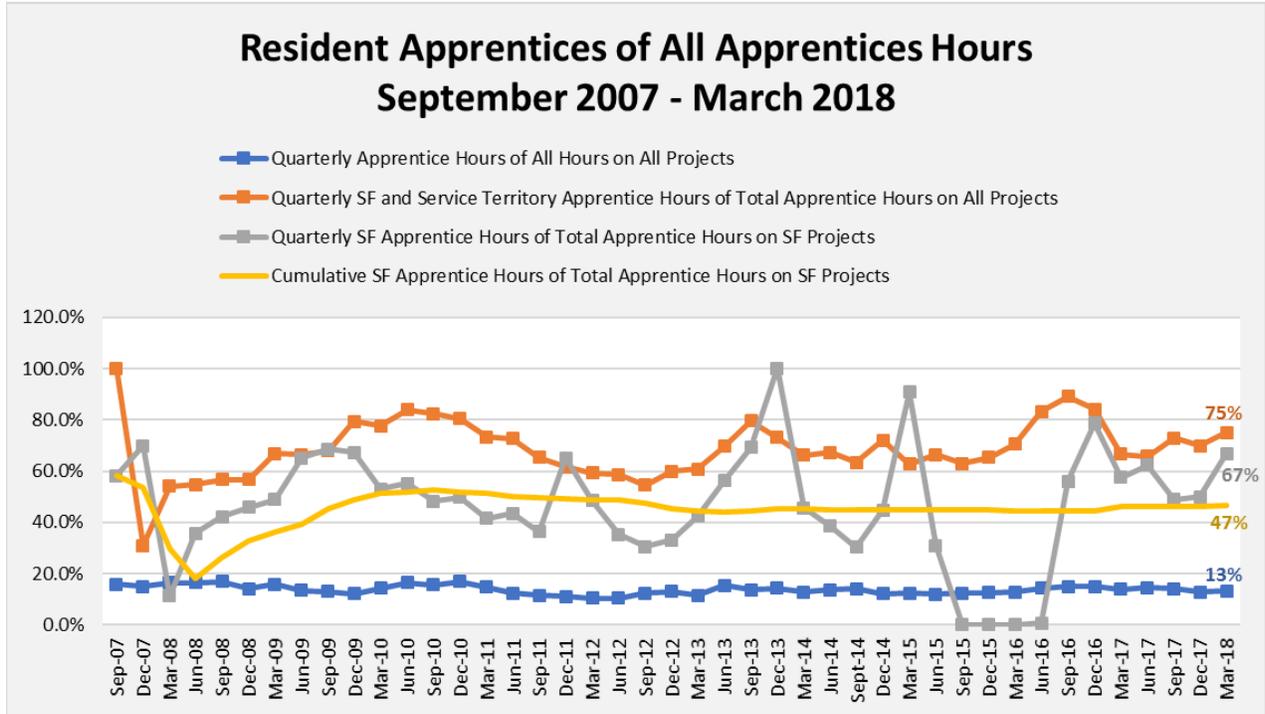
Through the end of the current quarter, 13.4% of craft hours in apprenticeable trades have been worked by apprentices. 17% of apprentice hours were worked by San Francisco residents and 56% were worked by residents of the Regional Service Territory, or 73% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SFPUC ST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A - OPERATING ENGINEER (HEAVY AN	1,026,748	20,663	3,912	11,459	5,293	2.0%	0.4%	1.1%	18.9%	55.5%	25.6%
A - CARPENTER AND RELATED TRADE	716,933	112,443	28,032	53,620	30,791	15.7%	3.9%	7.5%	24.9%	47.7%	27.4%
A - TUNNEL WORKER (LABORER)	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - OPERATING ENGINEER	601,090	178,833	25,957	80,773	72,104	29.8%	4.3%	13.4%	14.5%	45.2%	40.3%
A - ELECTRICIAN	453,005	83,708	9,562	58,667	15,479	18.5%	2.1%	13.0%	11.4%	70.1%	18.5%
A - PLUMBER	416,251	114,746	32,748	56,070	25,927	27.6%	7.9%	13.5%	28.5%	48.9%	22.6%
A - IRON WORKER	264,225	58,579	12,179	25,136	21,265	22.2%	4.6%	9.5%	20.8%	42.9%	36.3%
A - PILE DRIVER (CARPENTER)	176,062	17,428	4,451	8,750	4,228	9.9%	2.5%	5.0%	25.5%	50.2%	24.3%
A - PAINTER	144,424	24,999	1,809	6,702	16,488	17.3%	1.3%	4.6%	7.2%	26.8%	66.0%
A - CEMENT MASON	125,798	5,903	3,641	1,110	1,152	4.7%	2.9%	0.9%	61.7%	18.8%	19.5%
A - BOILERMAKER-BLACKSMITH	119,088	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - BUILDING/CONSTRUCTION INSPECT	76,459	2,751	5	1,242	1,504	3.6%	0.0%	1.6%	0.2%	45.1%	54.7%
A - PILE DRIVER (OPERATING ENGINE	51,487	30	-	-	30	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%
A - ROOFER	50,016	12,507	1,568	6,249	4,690	25.0%	3.1%	12.5%	12.5%	50.0%	37.5%
A - FIELD SURVEYOR	20,727	684	11	67	606	3.3%	0.1%	0.3%	1.6%	9.8%	88.6%
A - SHEET METAL WORKER	16,814	1,806	16	931	860	10.7%	0.1%	5.5%	0.9%	51.5%	47.6%
A - DRYWALL INSTALLER/LATHER (CA	11,886	473	60	283	130	4.0%	0.5%	2.4%	12.7%	59.8%	27.5%
A - BRICKLAYER, BLOCKLAYER	8,574	2,682	82	573	2,027	31.3%	1.0%	6.7%	3.1%	21.3%	75.6%
A - ELECTRICAL UTILITY LINEMAN	6,797	79	-	79	-	1.2%	0.0%	1.2%	0.0%	100.0%	0.0%
A - OPERATING ENGINEER (SPECIAL S	6,010	1,162	-	1,047	115	19.3%	0.0%	17.4%	0.0%	90.1%	9.9%
A - GLAZIER	4,331	564	402	20	142	13.0%	9.3%	0.5%	71.3%	3.5%	25.2%
A - PLASTERER	3,750	347	136	-	211	9.3%	3.6%	0.0%	39.2%	0.0%	60.8%
A - PLASTER TENDER	1,281	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - SHEET METAL WORKER (HVAC)	1,235	1,071	277	627	168	86.7%	22.4%	50.7%	25.8%	58.5%	15.7%
A - BRICK TENDER	827	24	24	-	-	2.9%	2.9%	0.0%	100.0%	0.0%	0.0%
A - PARKING AND HIGHWAY IMPROVE	732	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - ASBESTOS WORKER, HEAT AND F	507	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - CARPET, LINOLEUM, SOFT FLOOR	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - TILE SETTER	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	100.0%	0.0%
A - TILE FINISHER	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	100.0%
A - METAL ROOFING SYSTEMS INSTAL	201	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - TERRAZZO WORKER	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - MARBLE FINISHER	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - TERRAZZO FINISHER	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sub-Total Apprenticeable	4,919,442	643,918	124,910	314,682	204,327	13.1%	2.5%	6.4%	19.4%	48.9%	31.7%
A - LABORER	2,801,694	390,781	47,445	263,275	80,061	13.9%	1.7%	9.4%	12.1%	67.4%	20.5%
A-Operating Engineer (COMBINED)	1,685,333	200,688	29,868	93,278	77,542	11.9%	1.8%	5.5%	14.9%	46.5%	38.6%
Total Apprenticeable	7,721,136	1,034,699	172,354	577,957	284,388	13.4%	2.2%	7.5%	16.7%	55.9%	27.5%
Total Non-Apprenticeable	455,880										
Total WSIP - Covered by PLA	8,177,015										

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For the three months ending March 31, 2018, 50% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



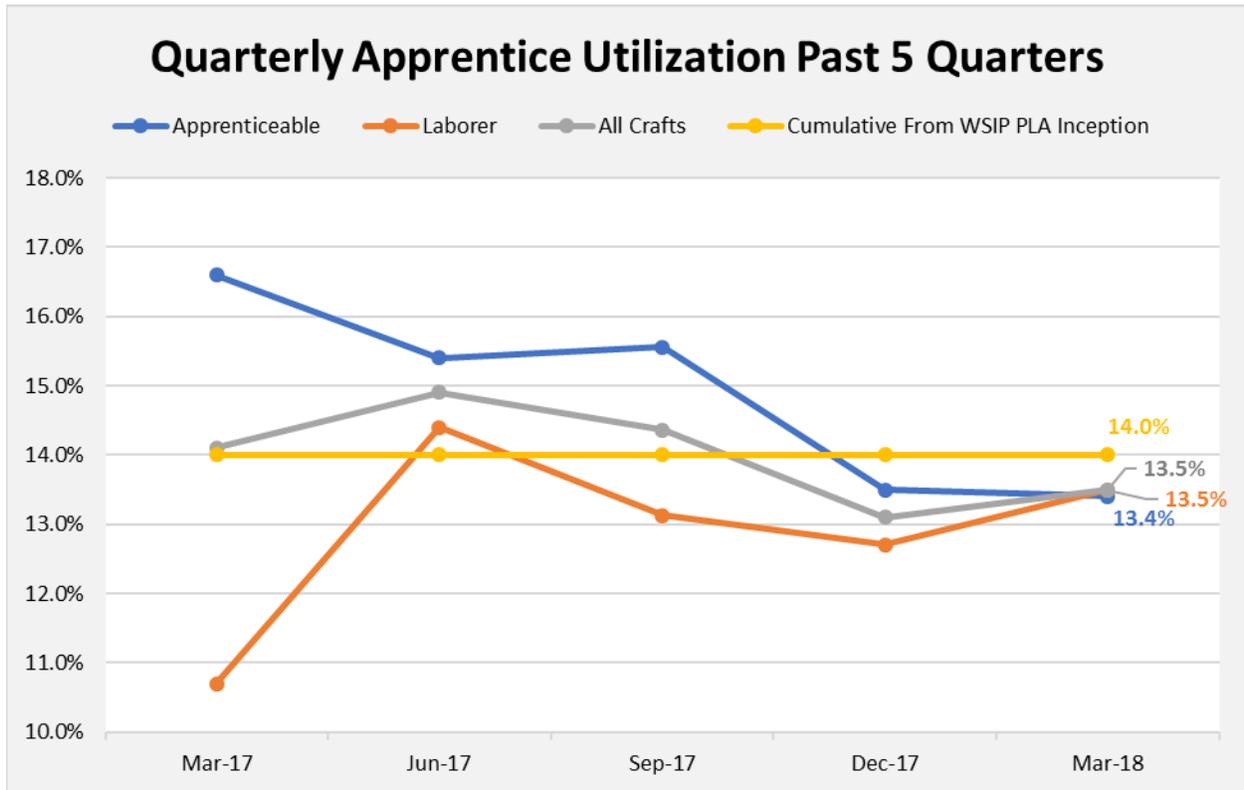
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 14%. This is slightly higher than the 13.4% mentioned in the *Apprentice Utilization by Craft* chart (page 20) because the chart below reflects the Total Apprenticeable and Laborer Hours which is slightly lower than the Total Craft Hours used to calculate the percentage for crafts.

WSIP - Covered by PLA Apprentice Utilization By Project Inception Through March 31, 2018											
Project	Apprentice Utilization By Project										
	All Workers Hours					Apprentice Hours			Apprentice Utilization %		
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - Advanced Meter	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
WD-2498 - New Crystal Sp	117,860	51,381	54,937	11,543	62,923	12,361	5,252	17,612	24.1%	45.5%	28.0%
WD-2504 - Stanford Height	74,300	40,450	-	33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2539 - University Mour	187,032	106,332	1,199	79,502	185,834	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2729 - Fish Passage F	128,886	84,824	5,678	38,385	123,209	17,444	4,101	21,545	20.6%	10.7%	17.5%
WD-2573 - Pulgas Balanci	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2627R - Sutro Reserv	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2641R - Habitat Reser	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
WD-2668 - Regional Groun	147,624	92,936	1,079	53,609	146,545	17,894	6,832	24,726	19.3%	12.7%	16.9%
WD-2798 - San Francisco	33,927	5,678	-	28,249	33,927	1,092	5,937	7,029	19.2%	21.0%	20.7%
HH-914R - Roselle Crosso	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
DB-116 - Tesla Treatment	141,910	97,738	1,863	42,310	140,407	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2469 - Forest Knolls P	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2582 - Sunol Valley W	462,447	293,884	13,009	155,554	449,438	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2596 - Harry Tracy Wa	1,013,917	674,623	40,826	298,468	973,091	108,428	35,995	144,423	16.1%	12.1%	14.8%
WD-2651R - Peninsula 201	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2589 - Supervisory Co	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2640 - Bioregional Hat	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2552 - Alameda Siphon	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2555 - Crystal Springs	127,805	49,126	9,741	68,938	118,064	7,559	5,394	12,953	15.4%	7.8%	11.0%
WD-2548 - Lake Merced P	101,050	72,283	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
WD-2072 - Peninsula Pipel	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2575 - San Antonio Ba	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2513 - San Andreas P	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2621R - San Francisco	51,943	31,203	-	20,740	51,943	4,322	1,903	6,225	13.8%	9.2%	12.0%
WD-2501 - Alemany Pump	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2601 - Crystal Springs	489,176	300,936	57,401	130,839	431,775	37,806	10,916	48,722	12.6%	8.3%	11.3%
WD-2568 - BDPL Nos. 3&4	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2591 - Lower Crystal S	98,656	40,985	1,323	56,348	97,333	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2541 - Bay Division Pij	208,255	89,103	12,808	106,345	195,448	10,026	10,170	20,196	11.3%	9.6%	10.3%
WD-2629 - Seismic Upgrad	134,433	73,476	1,729	59,228	132,704	8,299	13,292	21,590	11.3%	22.4%	16.3%
HH-953 - Tesla Portal Prot	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2551 - Calaveras Dam	1,281,106	700,620	32,898	547,589	1,248,209	77,435	92,730	170,165	11.1%	16.9%	13.6%
WD-2566 - San Antonio Pu	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
HH-935A - San Joaquin Pij	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935C - San Joaquin Pij	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2564 - Harry Tracy Wa	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2623 - Harding Park R	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2531 - Bay Division Pij	583,318	164,684	339,239	79,394	244,078	14,153	18,238	32,391	8.6%	23.0%	13.3%
WD-2556 - Baden and San	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2542 - Bay Division Pij	288,044	90,616	31,498	165,930	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
HH-935B - San Joaquin Pij	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2652 - Bioregional Hat	110,655	19,428	3,086	88,140	107,568	1,492	19,170	20,661	7.7%	21.7%	19.2%
WD-2511 - Standby Power	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2581 - New Irvington T	730,584	546,878	99,798	83,908	630,786	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2622 - San Francisco	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2543 - North University	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2809 - San Francisco	5,214	1,462	-	3,752	5,214	66	126	192	4.5%	3.3%	3.7%
WD-2665 - Bay Division Pij	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2666 - Bioregional Hat	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2654R - Peninsula Veg	29,518	5,714	189	23,616	29,329	8	1,694	1,702	0.1%	7.2%	5.8%
WD-2529 - Noe Valley Trar	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2600 - Regional Groun	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2776 - San Francisco	1,772	698	-	1,074	1,772	-	-	-	0.0%	0.0%	0.0%
<b>WSIP - Covered by PLA (5</b>	<b>8,177,015</b>	<b>4,593,477</b>	<b>782,109</b>	<b>2,801,430</b>	<b>7,394,907</b>	<b>643,920</b>	<b>390,779</b>	<b>1,034,699</b>	<b>14.0%</b>	<b>13.9%</b>	<b>14.0%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending March 31, 2018. The Laborers continue to work a considerable amount of hours and are highlighted below. Percentages compared to last quarter are as follows; the Laborers Apprentice Utilization increased by 0.7%, the Apprenticeable trades decreased by 0.1% , and the Laborer and Apprenticeable crafts combined (All Crafts) increased by 0.4%. However, the overall cumulative percentage has remained the same.



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**Jobs Training and Opportunities Program (JTOP)**

As of March 31, 2018, the SFPUC and City staff has referred 644 apprentices and 364 journeypersons to WSIP PLA-covered projects from our community-based partners in Job Training Programs and through the Labor Unions. These 1008 individuals represent 11.7% of the total hours worked and 9.0% of the wages earned.\*

WSIP-PLA Referred Workers By Job Training and Opportunities Program						
Inception Through March 31, 2018						
Referred Apprentice Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Apprentices	% Of Total Apprentice Hours	% Of Total Apprentice Wages
CityBuild Academy	11	8,509	\$ 287,090	0.1%	0.1%	0.1%
CityBuild Referral Services	83	53,184	\$ 2,256,018	0.8%	0.7%	0.8%
Cypress Mandela Training Center, Inc.	16	19,081	\$ 637,284	0.1%	0.3%	0.2%
Helmets to Hardhats	1	13	\$ 498	0.0%	0.0%	0.0%
Job Corps	1	37	\$ 1,489	0.0%	0.0%	0.0%
JobTrain's Project Build	15	18,274	\$ 569,742	0.1%	0.3%	0.2%
Northern California Construction and Training, Inc.	1	1,640	\$ 42,809	0.0%	0.0%	0.0%
San Joaquin County Office of Ed. YouthBuild	1	312	\$ 7,924	0.0%	0.0%	0.0%
SFPUC	33	44,477	\$ 1,538,740	0.3%	0.6%	0.5%
Sponser	2	8,595	\$ 322,998	0.0%	0.1%	0.1%
Union	200	210,455	\$ 7,941,672	1.9%	2.9%	2.7%
<b>Total Referred Apprentice Workers</b>	<b>644</b>	<b>593,870</b>	<b>\$ 15,061,461</b>	<b>34.7%</b>	<b>57.4%</b>	<b>55.2%</b>
Non-Referred Apprentices	1,210	440,829	\$ 12,224,346	65.3%	42.6%	44.8%
<b>Total Apprentices</b>	<b>1,854</b>	<b>1,034,699</b>	<b>\$ 27,285,807</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Referred Journeyman Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Journey Level Workers	% Of Total Journey Hours	% Of Total Journey Wages
CityBuild Academy	11	8,509	\$ 287,090	0.1%	0.1%	0.1%
CityBuild Referral Services	83	53,184	\$ 2,256,018	0.8%	0.7%	0.8%
Cypress Mandela Training Center, Inc.	16	19,081	\$ 637,284	0.1%	0.3%	0.2%
Helmets to Hardhats	1	13	\$ 498	0.0%	0.0%	0.0%
Job Corps	1	37	\$ 1,489	0.0%	0.0%	0.0%
JobTrain's Project Build	15	18,274	\$ 569,742	0.1%	0.3%	0.2%
Northern California Construction and Training, Inc.	1	1,640	\$ 42,809	0.0%	0.0%	0.0%
San Joaquin County Office of Ed. YouthBuild	1	312	\$ 7,924	0.0%	0.0%	0.0%
SFPUC	33	44,477	\$ 1,538,740	0.3%	0.6%	0.5%
Sponser	2	8,595	\$ 322,998	0.0%	0.1%	0.1%
Union	200	210,455	\$ 7,941,672	1.9%	2.9%	2.7%
<b>Total Referred Journeyman Workers</b>	<b>364</b>	<b>364,574</b>	<b>\$ 13,606,265</b>	<b>3.4%</b>	<b>5.1%</b>	<b>4.7%</b>
Non-Referred Journeypersons	10,399	6,777,742	\$ 277,943,666	96.6%	94.9%	95.3%
<b>Total Journeypersons</b>	<b>10,763</b>	<b>7,142,316</b>	<b>\$ 291,549,931</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Total Workforce						
<b>Total Referred Workers (J+A)</b>	<b>905</b>	<b>958,444</b>	<b>\$ 28,667,726</b>	<b>7.3%</b>	<b>11.7%</b>	<b>9.0%</b>
All Non-Referred Workers						
All Non-Referred Workers						
<b>Total Workforce</b>	<b>12,363</b>	<b>8,177,015</b>	<b>\$ 318,835,738</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Note: Because of the statistics method's distinction, the result of the worker count in this report is differ from other reports.

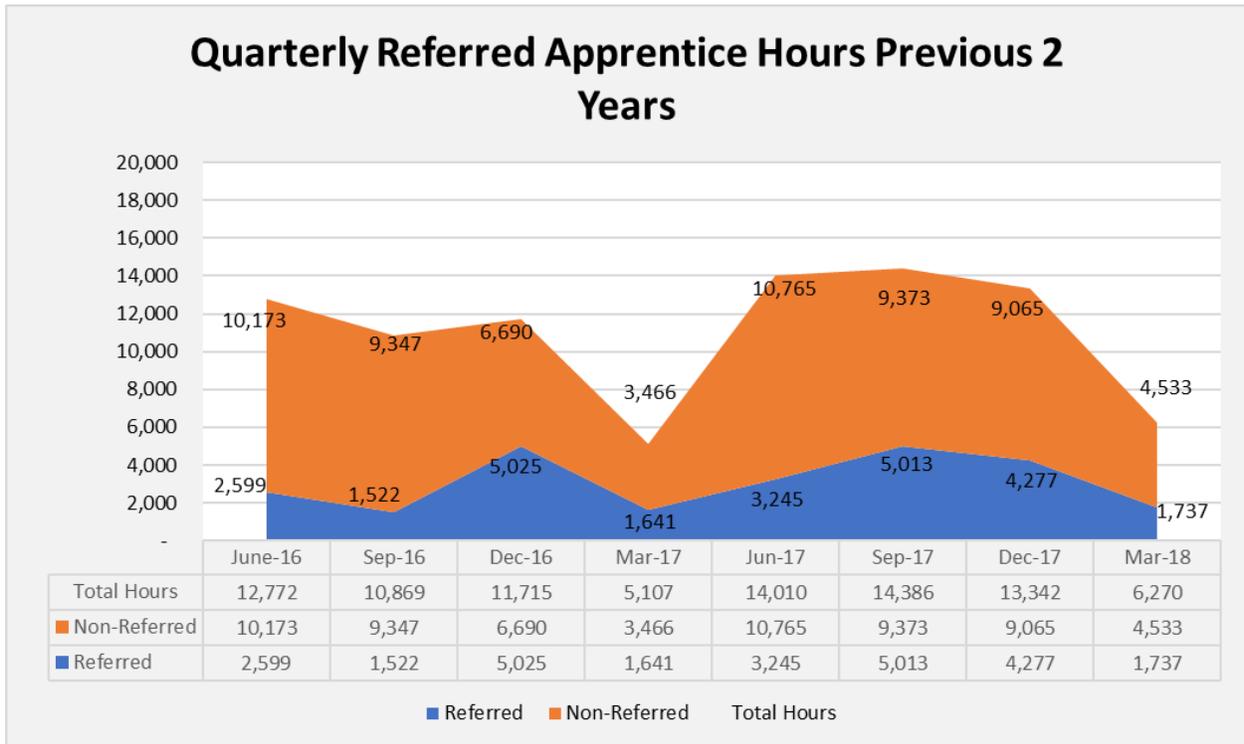
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through March 31, 2018									
Project	Total Craft Hours			Referred Hours			Referred Utilization %		
	Total Hours	Total Apprentice Hours	Total Journey Hours	Referred Apprentice Hours	Referred Journey Hours	Total Referred Hours	Referred Apprentice %	Referred Journey %	Total Referred %
WD-2551 - Calaveras Dam Repla	1,281,106	170,165	1,110,941	128,718	93,939	222,657	75.6%	8.5%	17.4%
WD-2596 - Harry Tracy Water Tr	1,013,917	144,423	869,494	81,895	37,310	119,204	56.7%	4.3%	11.8%
WD-2581 - New Irvington Tunnel	730,584	51,750	678,834	37,436	15,218	52,653	72.3%	2.2%	7.2%
WD-2531 - Bay Division Pipeline	583,318	32,391	550,927	27,949	26,451	54,400	86.3%	4.8%	9.3%
WD-2601 - Crystal Springs / San	489,176	48,722	440,454	41,550	27,188	68,739	85.3%	6.2%	14.1%
WD-2582 - Sunol Valley Water T	462,447	68,616	393,832	27,121	8,367	35,488	39.5%	2.1%	7.7%
WD-2542 - Bay Division Pipeline	288,044	26,210	261,834	20,197	4,770	24,967	77.1%	1.8%	8.7%
CS-936 - Advanced Meter Infrast	227,027	79,373	147,654	4,405	20,110	24,515	5.5%	13.6%	10.8%
WD-2541 - Bay Division Pipeline	208,255	20,196	188,059	10,927	5,850	16,777	54.1%	3.1%	8.1%
WD-2539 - University Mound Res	187,032	30,350	156,682	14,817	12,887	27,703	48.8%	8.2%	14.8%
WD-2627R - Sutro Reservoir Reh	154,545	20,639	133,906	17,701	6,603	24,304	85.8%	4.9%	15.7%
WD-2668 - Regional Groundwater	147,624	24,726	122,898	8,383	13,842	22,225	33.9%	11.3%	15.1%
HH-935C - San Joaquin Pipeline	144,012	17,263	126,749	14,185	8,693	22,877	82.2%	6.9%	15.9%
DB-116 - Tesla Treatment Facilit	141,910	26,991	114,920	7,450	1,884	9,334	27.6%	1.6%	6.6%
WD-2499 - Seismic Upgrade of B	134,433	21,590	112,842	16,950	4,064	21,014	78.5%	3.6%	15.6%
WD-2552 - Alameda Siphon No.	129,485	20,720	108,765	16,749	3,356	20,105	80.8%	3.1%	15.5%
WD-2729 - Fish Passage Faciliti	128,886	21,545	107,341	3,730	2,574	6,304	17.3%	2.4%	4.9%
WD-2555 - Crystal Springs Pipel	127,805	12,953	114,853	12,193	11,757	23,950	94.1%	10.2%	18.7%
WD-2498 - New Crystal Springs	117,860	17,612	100,248	319	291	610	1.8%	0.3%	0.5%
WD-2652 - Bioregional Habitat R	110,655	20,661	89,993	14,823	5,899	20,722	71.7%	6.6%	18.7%
WD-2548 - Lake Merced Pump S	101,050	10,807	90,244	3,851	10,836	14,687	35.6%	12.0%	14.5%
HH-935B - San Joaquin Pipeline	100,492	9,304	91,188	5,797	1,923	7,719	62.3%	2.1%	7.7%
WD-2591 - Lower Crystal Springs	98,656	8,685	89,970	6,917	4,086	11,003	79.6%	4.5%	11.2%
HH-935A - San Joaquin Pipeline	84,483	9,009	75,474	2,977	422	3,399	33.0%	0.6%	4.0%
WD-2513 - San Andreas Pipeline	83,503	9,311	74,192	8,522	513	9,035	91.5%	0.7%	10.8%
WD-2575 - San Antonio Backup	75,263	12,460	62,803	10,106	3,250	13,356	81.1%	5.2%	17.7%
WD-2504 - Stanford Heights Res	74,300	9,891	64,409	1,336	4,241	5,577	13.5%	6.6%	7.5%
WD-2501 - Alemany Pump Statio	74,085	7,625	66,460	3,275	1,175	4,450	43.0%	1.8%	6.0%
WD-2727 - Peninsula Pipeline Se	69,772	11,858	57,914	8,229	5,687	13,916	69.4%	9.8%	19.9%
WD-2543 - North University Moun	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2621R - San Francisco Grou	51,943	6,225	45,718	1,495	186	1,681	24.0%	0.4%	3.2%
WD-2573 - Pulgas Balancing Res	50,367	7,817	42,550	1,458	1,282	2,740	18.6%	3.0%	5.4%
WD-2568 - BDPL Nos. 3&4 Cros	47,910	4,538	43,373	2,020	185	2,205	44.5%	0.4%	4.6%
WD-2641R - Habitat Reserve Pro	44,018	9,222	34,796	4,946	1,360	6,306	53.6%	3.9%	14.3%
WD-2564 - Harry Tracy Water Tr	43,049	2,089	40,961	1,329	211	1,540	63.6%	0.5%	3.6%
WD-2798 - San Francisco Wests	33,927	7,029	26,898	1,444	2,181	3,625	20.5%	8.1%	10.7%
WD-2654R - Peninsula Vegetatio	29,518	1,702	27,816	1,021	2,512	3,533	60.0%	9.0%	12.0%
WD-2469 - Forest Knolls Pump S	26,553	2,907	23,646	1,961	52	2,013	67.5%	0.2%	7.6%
WD-2666 - Bioregional Habitat R	23,492	1,843	21,649	906	2,039	2,945	49.2%	9.4%	12.5%
WD-2623 - Harding Park Recycle	22,727	1,645	21,082	1,280	3,659	4,938	77.8%	17.4%	21.7%
WD-2651R - Peninsula 2011 Wa	22,569	3,135	19,435	2,372	3,551	5,923	75.7%	18.3%	26.2%
WD-2529 - Noe Valley Transmiss	22,511	1,133	21,378	1,133	263	1,396	100.0%	1.2%	6.2%
WD-2665 - Bay Division Pipeline	21,967	1,909	20,059	1,848	1,135	2,983	96.8%	5.7%	13.6%
WD-2556 - Baden and San Pedro	19,939	2,738	17,201	2,069	98	2,167	75.6%	0.6%	10.9%
WD-2622 - San Francisco Grou	17,782	2,092	15,690	1,286	1,596	2,882	61.5%	10.2%	16.2%
WD-2566 - San Antonio Pump S	14,916	1,798	13,119	931	-	931	51.8%	0.0%	6.2%
HH-914R - Roselle Crossover Imp	12,859	1,943	10,917	256	32	288	13.2%	0.3%	2.2%
HH-953 - Tesla Portal Protection	11,512	3,255	8,257	3,255	865	4,120	100.0%	10.5%	35.8%
WD-2511 - Standby Power Facilit	11,275	626	10,649	-	4	4	0.0%	0.0%	0.0%
WD-2640 - Bioregional Habitat R	10,621	1,615	9,006	1,407	75	1,482	87.1%	0.8%	13.9%
WD-2600 - Regional Groundwater	6,088	296	5,792	296	-	296	100.0%	0.0%	4.9%
WD-2809 - San Francisco Grou	5,214	192	5,023	107	-	107	55.6%	0.0%	2.0%
WD-2776 - San Francisco Wests	1,772	-	1,772	-	3	3	0.0%	0.2%	0.2%
WD-2589 - Supervisory Control a	1,498	115	1,383	-	-	-	0.0%	0.0%	0.0%
<b>Total WSIP PLA</b>	<b>8,177,015</b>	<b>1,034,699</b>	<b>7,142,316</b>	<b>593,870</b>	<b>364,574</b>	<b>958,444</b>	<b>57.4%</b>	<b>5.1%</b>	<b>11.7%</b>

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The following chart summarizes *Referred and Non-referred Apprentices Quarterly Hours Earned* on all WSIP PLA-covered projects over the past eight quarters. As the WSIP PLA program continues to near completion there are fewer opportunities to refer workers to the projects and less hours worked overall. With 1,737 referred hours during the quarter, referred apprentices represented 28% of the apprentice hours this quarter.



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**Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,451** pre-employment tests have been administered as of March 31, 2018 to people who were cleared to work. 193 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.34%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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<b>WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 3/31/2018	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	1,823
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	265
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	141
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	97
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Skyline Blvd	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bay Division Pipeline No. 5, Cordilleras Microtunnel	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulch Grasslands	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2687R - Auxiliary Water Supply System Pumping Station No. 2 Improvements	4
WD-2776 - San Francisco Westside Recycled Water Treatment Facility at Oceanside Plant	3
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,451</b>

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (Elation Systems, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. Elation Systems' electronic certified payrolls are used to produce the employment data included in this report.



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WATER SYSTEM **IMPROVEMENT** PROGRAM

# **Water System Improvement Program Project Labor Agreement**

**Quarterly Report  
Quarter Ended June 30, 2018  
(Third Quarter FY 2017-2018)**

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**Executive Summary**

Since it was adopted on March 16, 2007 the WSIP Project Labor Agreement (PLA) has promoted the public interest by ensuring the timely and economical completion of WSIP projects. The WSIP PLA has provided the structure to promote efficiency of construction of the WSIP, facilitate the partnership between the SFPUC, Unions, and Contractors, provide for peaceful settlement of labor disputes, and facilitate the employment of residents.

Progress on WSIP construction projects provides employment for construction workers employed by union-signatory and non-union construction contractors. Fifty-four (54) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.162 billion in original contract award through June 30, 2018.

Construction Activity Highlights – Program-to-Date

**Contracting:**

- Fifty-four (54) construction contracts with a value of \$2.162 billion in original contract award have been awarded subject to the WSIP PLA.

**Employment:**

- Since inception, 13,722 construction workers were employed for 8,318,106 hours and earned wages of \$325,421,476 on WSIP PLA-covered projects.
- 1,183 San Francisco residents worked 567,013 hours and earned \$21,051,489 on WSIP PLA-covered projects representing 7% of covered hours and 273 full-time equivalent worker years.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. 6,084 residents of the Regional Service Territory earned wages of \$136,000,106 and worked 3,555,514 hours, representing 43% of covered hours and 1,709 full-time equivalent worker years.
- 14,528 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of June 30, 2018. 195 people were prevented from working on WSIP PLA-covered projects due to receiving a non-negative result.

Region of Worker Residence	Inception Through June 30, 2018			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,722	8,318,106	\$ 325,421,476	3,999
San Francisco	1,183	567,013	\$ 21,051,489	273
SFPUC Service Territory	6,084	3,555,514	\$ 136,000,106	1,709
Outside	6,455	4,195,579	\$ 168,369,881	2,017

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Construction Activity Highlights – Quarter Ending June 30, 2018

**Contracting:**

- There was no contract awarded during the reporting period.

**Employment:**

- 326 construction workers were employed for 66,312 hours and earned wages of \$2,873,101 on WSIP PLA-covered projects.
- 33 San Francisco residents worked 2,789 hours and earned wages of \$116,927 on WSIP PLA-covered projects.
- The SFPUC Regional Service Territory consists of zip codes in seven counties outside of San Francisco, both in the vicinity of WSIP construction and within which the SFPUC delivers water. During this quarter, 147 residents of the Regional Service Territory worked 32,910 hours and earned wages of \$1,387,774 on WSIP PLA-covered projects.
- 77 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and 1 individual was prevented from working as the result of a positive test.

**Summary of Craft Worker Employment**

Region of Worker Residence	Three Months Ending June 30, 2018			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	326	66,312	\$ 2,873,101	32
San Francisco	33	2,789	\$ 116,927	1
SFPUC Service Territory	147	32,910	\$ 1,387,774	16
Outside	146	30,613	\$ 1,368,400	15

\*FTE is the abbreviation for Full Time Equivalent. Since the workers on the projects may only work a few hours or days on the project, this is a way to determine the number of full time positions created. It is found by taking the Sum of Hours divided by 2,080, the conventional value for total hours worked per year based on a 40 hour work week.

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**Summary of WSIP PLA-Covered Contract Awards**

Sorted by Award Date

Construction Contracts Awarded Subject to the WSIP-PLA					
Inception through June 30, 2018					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
05/09/17	WD-2776*	S.J. Amoroso Construction Co., Inc.	San Francisco Westside Recycled Water Treatment Facility	\$70 to 80 Million	\$ 87,597,000
01/24/17	WD-2809*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Phase 2	\$11.2 Million	\$ 9,780,000
11/08/16	WD-2798*	JMB CONSTRUCTION INC	San Francisco Westside Recycled Water Pipeline	\$28.6 Million	\$ 21,729,720
01/12/16	WD-2729	Shimmick Construction	Fish Passage Facilities Within the Alameda Creek Watershed	\$30 Million	\$ 28,939,300
10/27/15	WD-2654R	NTK Construction	Peninsula Vegetation Removal	\$10.8 Million	\$ 11,062,544
01/13/15	WD-2668	Ranger Pipelines Inc	Regional Groundwater Storage and Recovery	\$50 Million	\$ 42,980,047
01/13/15	WD-2621R*	Western Water Constructors, Inc.	San Francisco Groundwater Supply Well Stations	\$16 Million	\$ 14,955,100
05/27/14	WD-2622*	Ranger Pipelines Inc	San Francisco Groundwater Supply Pipeline	\$13.6 Million	\$ 8,676,685
01/28/14	WD-2727	Ranger Pipelines Inc	Peninsula Pipeline Seismic Upgrade	\$22.5 Million	\$ 20,736,380
01/22/13	WD-2575	Ranger Pipelines Inc	San Antonio Backup Pipeline	\$34 to \$38 Million	\$ 31,372,335
06/26/12	WD-2627R*	S.J.Amoroso	Sutro Reservoir Rehabilitation	\$28 to \$36 Million	\$ 27,453,000
06/26/12	WD-2666	Shimmick Construction	Bioregional Habitat Restoration, Sheep Camp Creek	\$2.7 Million	\$ 3,912,500
06/12/12	WD-2629	Steve P. Rados	Bay Division Pipeline 3&4 at the Hayward Fault	\$49 to \$54 Million	\$ 31,320,000
04/23/12	WD-2651R	Shimmick Construction	Peninsula 2011 Watershed Compensation, Sherwood Park	\$5.9 to \$6.7 Million	\$ 5,591,750
12/13/11	HH-953	Azul Works, Inc.	Tesla Portal Protection	\$2.4 Million	\$ 2,760,000
12/13/11	WD-2600*	Road Runner Drilling	Regional Groundwater Storage and Recovery-Test Well 1	\$3.6 to \$4.2 Million	\$ 2,998,685
12/13/11	WD-2665	Steve P. Rados	Cordilleras Micro Tunnel	\$5.8 Million	\$ 5,251,100
11/08/11	WD-2652	Gordon N. Ball, Inc	Bioregional Habitat Restoration, San Antonio Creek	\$13 Million	\$ 12,947,400
09/13/11	WD-2641R	Yerba Buena Engineering	Habitat Reserve Program, Homestead Pond, San Andreas	\$6.4 Million	\$ 6,499,000
06/28/11	WD-2640	Yerba Buena Engineering	Bioregional Habitat Restoration - Goldfish Pond	\$2.4 Million	\$ 3,188,000
06/14/11	HH-935C	Contri Constmction,	San Joaquin Pipeline System - Eastern Segment	\$52 to \$57 Million	\$ 45,329,416
05/24/11	WD-2551	Dragados/Flatiron/Sukut JV	Calaveras Dam Replacement Project,	\$250 to \$300 Million	\$ 259,571,850
01/27/11	WD-2596	Kiewit Infrastructure West	Harry Tracy Water Treatment Plant Long-Term	\$220 to \$245 Million	\$ 174,197,000
01/11/11	WD-2555	Ranger Pipelines Inc	Crystal Springs Pipeline No.2	\$43 to \$48 Million	\$ 32,547,350
12/14/10	HH-935B	Mountain Cascade, Inc	San Joaquin Pipeline - Western Segment	\$70 Million	\$ 48,706,379
12/14/10	WD-2591	Kiewit Infrastructure West	Lower Crystal Springs Dam Improvements	\$18 to \$22 Million	\$ 17,360,400
09/14/10	WD-2601	Kiewit Infrastructure West	Crystal Springs / San Andreas Upgrade	\$100 to \$130 Million	\$ 99,763,000
09/14/10	WD-2623*	R & W Concrete	Harding Park Recycled Water Project	\$6.5 Million	\$ 5,251,100
06/08/10	WD-2581	Southland/Tutor Perini JV	New Irvington Tunnel	\$230 to \$260 Million	\$ 226,657,700
04/27/10	WD-2582	Shimmick Construction	Sunol Valley Water Treatment Plant	\$109 Million	\$ 83,102,160
04/13/10	HH-935A	West Bay Builders	San Joaquin Pipeline System - Crossovers	\$21.6 Million	\$ 11,723,817
12/18/09	WD-2531	Michels/JayDee/Coluccio, JV	Bay Tunnel	\$235 to \$260 Million	\$ 215,294,530
12/08/09	WD-2542	Mountain Cascade,	Bay Division Pipeline No. 5 - Peninsula Reaches	\$62 to \$69 Million	\$ 52,183,400
10/27/09	WD-2541	Ranger Pipelines Inc	Bay Division Pipeline Reliability Upgrade-East Bay	\$88 to \$98 Million	\$ 61,558,005
10/27/09	WD-2589	Ranger Pipelines Inc	Supervisory Control and Data Acquisition Phase II	\$10.6 Million	\$ 3,847,250
09/22/09	WD-2573	S.J.Amoroso	Pulgas Reservoir Structural Rehabilitation	\$14 to \$18 Million	\$ 12,857,000
09/08/09	WD-2566	Mountain Cascade	San Antonio Pump Station Upgrades Project	\$8.5 to \$9.5 Million	\$ 6,991,000
07/14/09	HH-914R	Mountain Cascade	Roselle Crossover Improvements	\$3.1 Million	\$ 2,837,000
06/23/09	WD-2513	Mountain Cascade	San Andreas Pipeline No.3 Installation Project	\$20 to \$25 Million	\$ 16,336,350
06/23/09	WD-2539*	S.J. Amoroso	University Mound Reservoir North Basin	\$47 to \$52 Million	\$ 29,597,000
05/26/09	WD-2552	Steve P. Rados	Alameda Siphon No. 4 Project	\$45.5 Million	\$ 31,933,695
04/28/09	WD-2568	Shimmick Construction	BDPL Nos. 3&4 Crossover Facilities	\$21.5 Million	\$ 12,695,000
04/17/09	WD-2548*	Western Water	Lake Merced Pump Station Essential Upgrades	\$52 to \$60 Million	\$ 31,584,000
03/10/09	CS-936*	VSI Meter Services	Advanced Meter Infrastructure	\$62.8 Million	\$ 62,822,980
02/24/09	WD-2556	JMB Construction	Baden and San Pedro Valve Lot Improvements	\$15 to \$18 Million	\$ 11,536,500
12/09/08	WD-2529*	KJ Woods	Noe Valley Transmission Main- Phase 2	\$6 to \$8 Million	\$ 5,724,000
10/14/08	WD-2498	Shank/Balfour-Beatty	New Crystal Springs Bypass Tunnel	\$55 to \$65 Million	\$ 55,674,000
09/23/08	DB-116	PCL Constructors	Tesla Treatment Facility	\$90 Million	\$ 81,420,562
09/09/08	WD-2543*	Shaw Pipeline Inc.	North University Mound System Upgrade	\$15 to \$18 Million	\$ 13,529,370
05/27/08	WD-2564	NTK Construction	Harry Tracy Water Treatment Plant-Short Term	\$15 to \$18 Million	\$ 13,824,000
12/11/07	WD-2469*	Cal State Constructors	Forest Knolls Pump Station and Storage Tank	\$5.5 to \$7 Million	\$ 6,547,000
12/07/07	WD-2501*	Monterey Mechanical	Alemany Pump Station	\$18 to \$22 Million	\$ 23,269,000
11/13/07	WD-2511	Power Engineering	Standby Power Facilities, Various Locations	\$5.7 Million	\$ 8,419,000
06/26/07	WD-2504*	S.J. Amoroso	Stanford Heights Reservoir Seismic Retrofit	\$18 to \$24 Million	\$ 17,899,960
<b>Total 54 Projects</b>					<b>\$ 2,162,341,320</b>

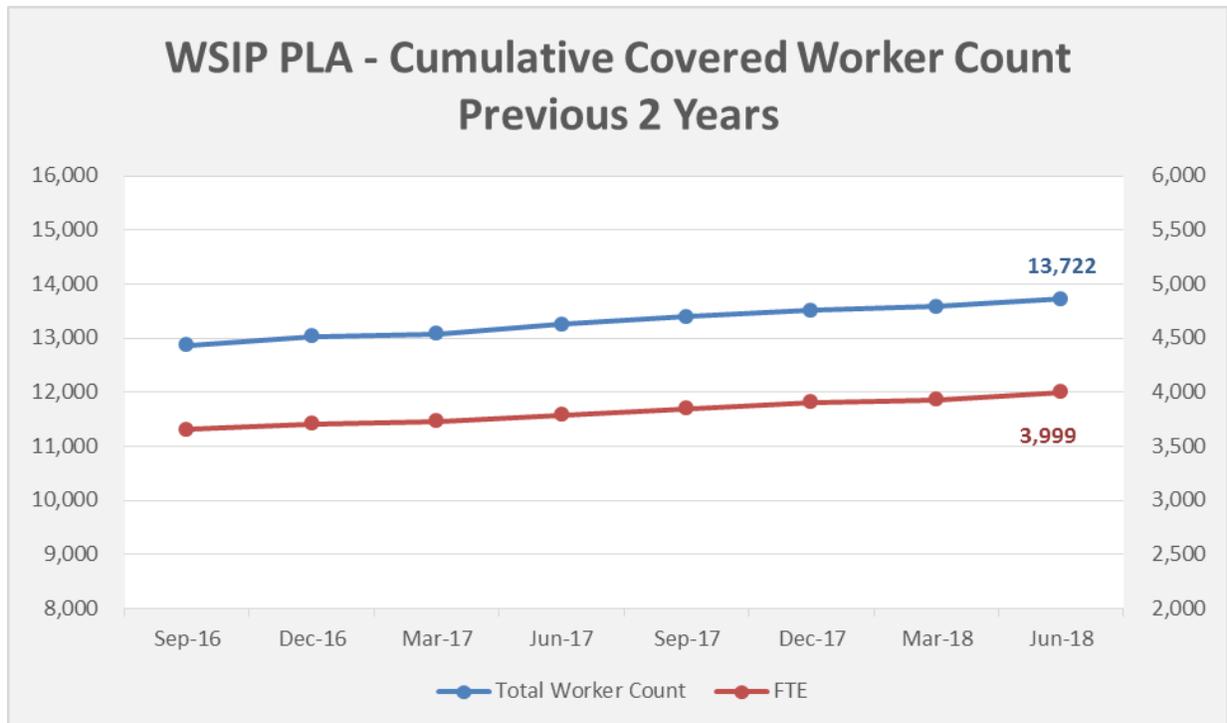
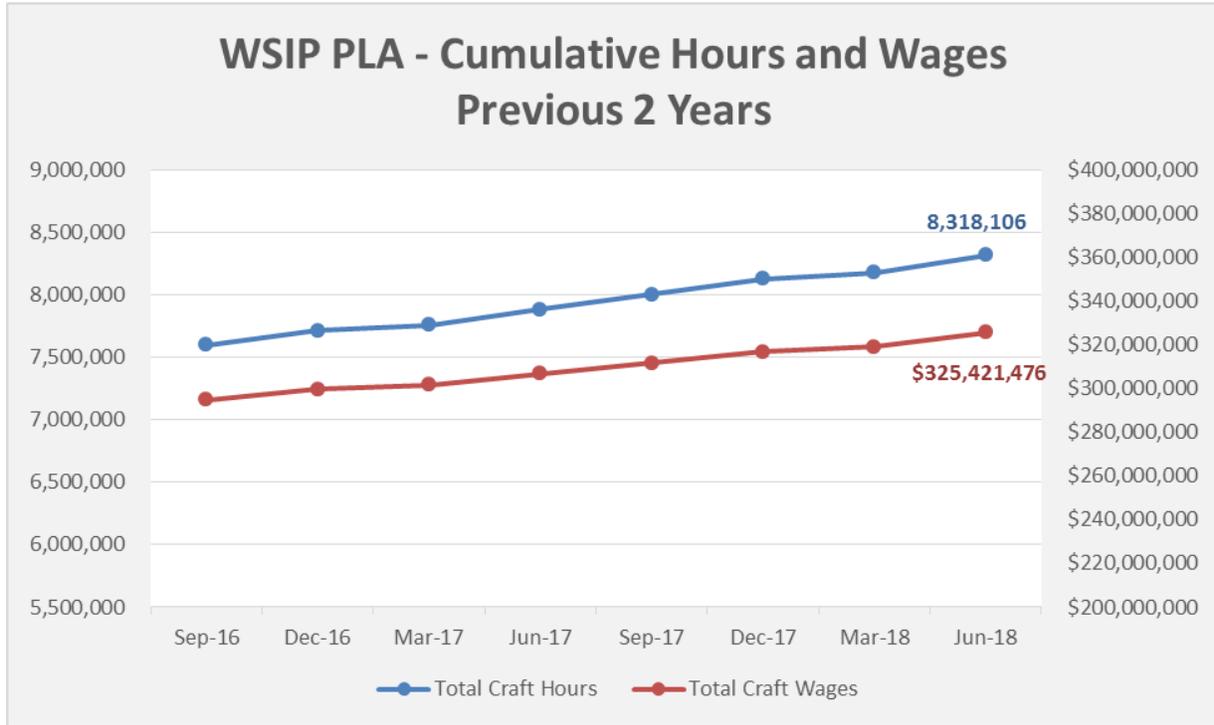
\* Indicates projects located in San Francisco

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**Summary Charts**

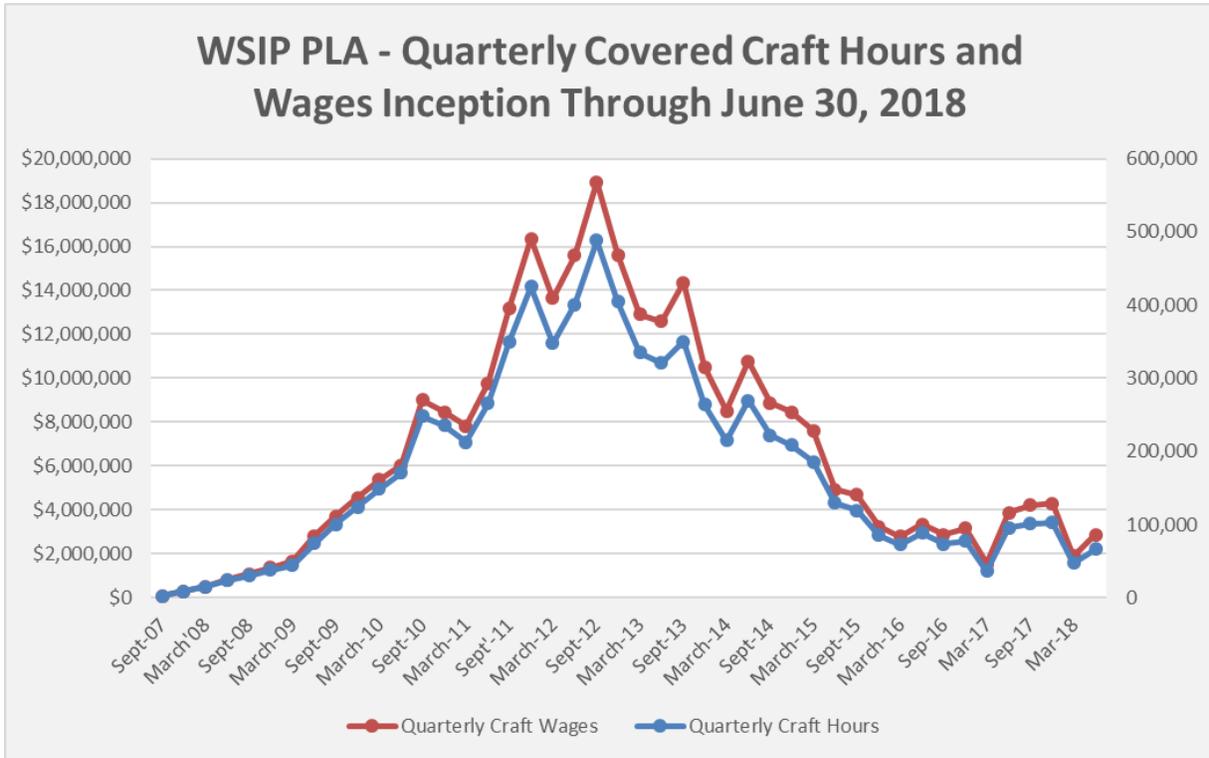
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending June 30, 2018; 13,722 workers on WSIP PLA-covered projects have achieved a cumulative total of 8,318,106 craft hours and \$325,421,476 in craft wages.

The tables below describe the progressive accumulation of these totals over the past two years.

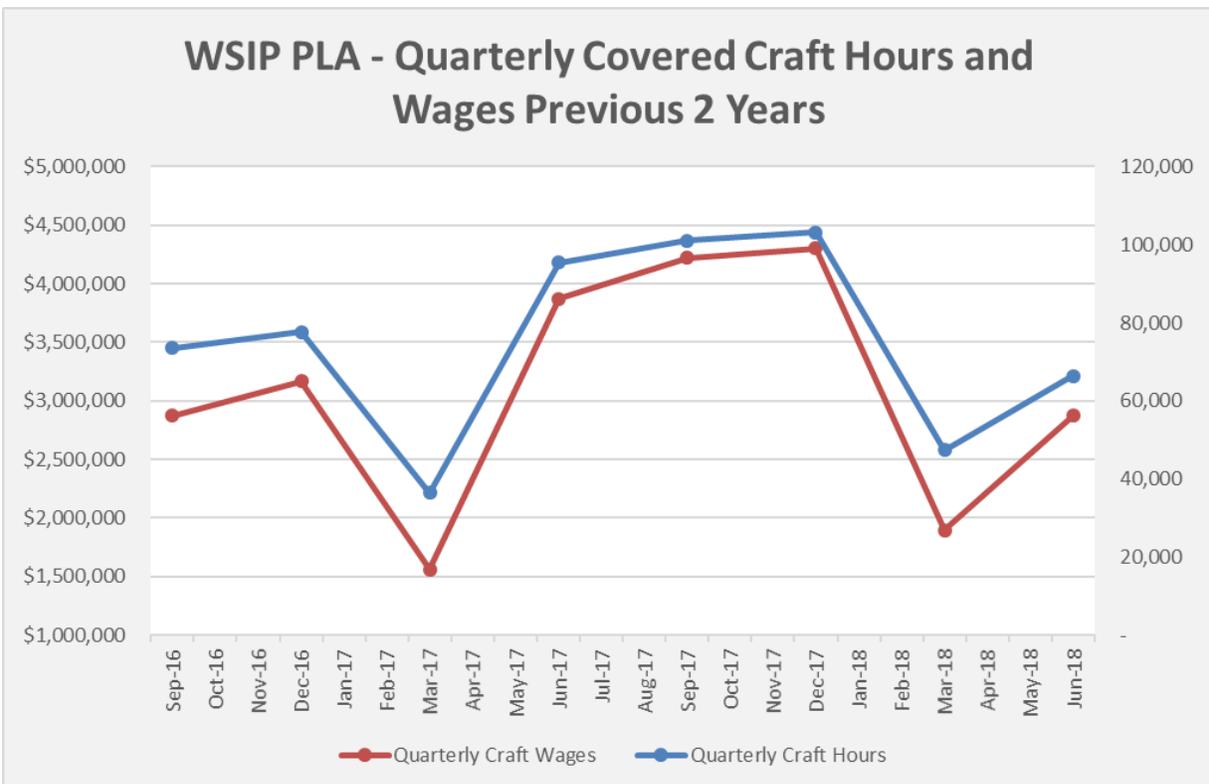


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



The chart below represents a close-up of the one above; highlighting the past two years.



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**Craft Utilization on WSIP PLA-Covered Projects**

As of June 30, 2018, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 32 craft areas.

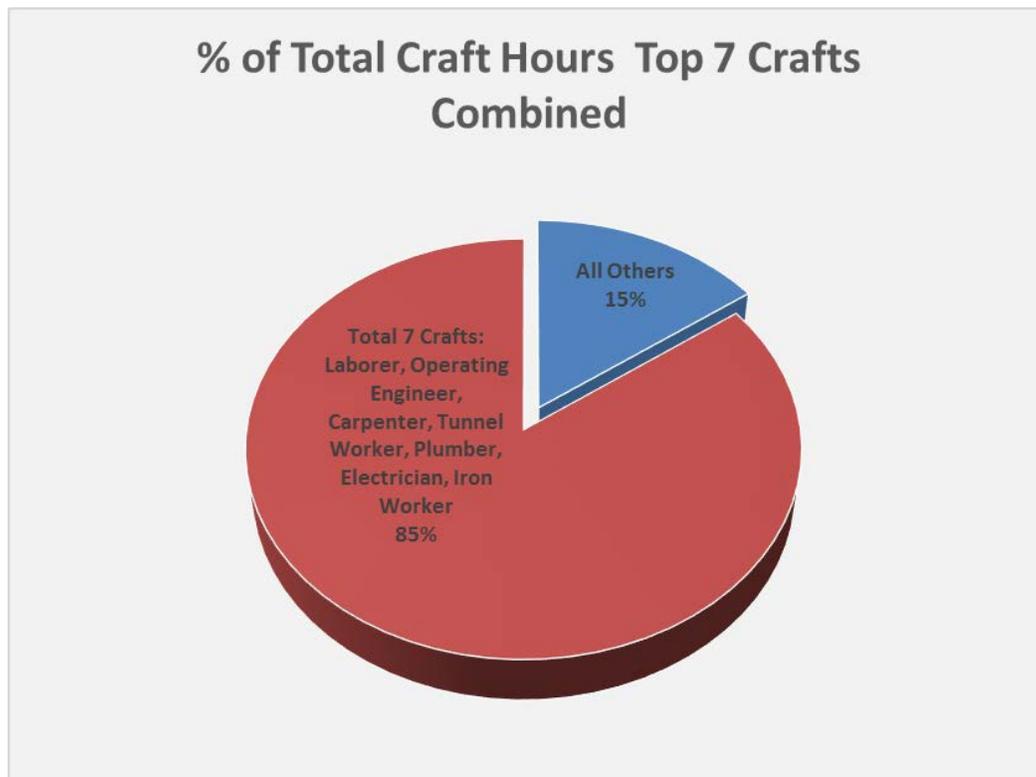
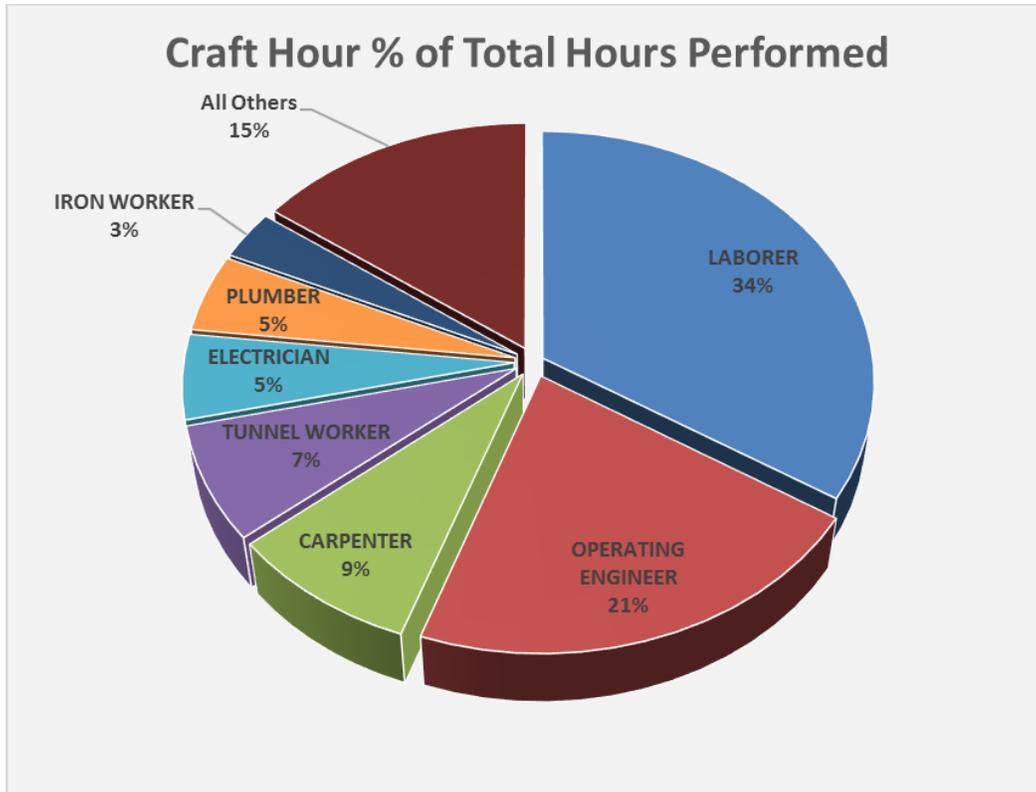
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed by Plumbers.

Sorted by Total Craft Hours

<b>Cumulative Employment by Craft</b>					
Inception Through June 30, 2018					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,834,731	\$ 86,851,336	34.1%	26.7%	1,363
OPERATING ENGINEER (Combined)	1,777,877	\$ 73,124,827	21.4%	22.5%	855
CARPENTER AND RELATED TRADES	719,254	\$ 30,089,740	8.6%	9.2%	346
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	7.4%	8.0%	295
ELECTRICIAN	455,377	\$ 23,989,727	5.5%	7.4%	219
PLUMBER	417,132	\$ 19,493,840	5.0%	6.0%	201
IRON WORKER	264,518	\$ 8,966,298	3.2%	2.8%	127
<b>Top 7 Sub-Total</b>	<b>7,081,853</b>	<b>\$ 268,408,199</b>	<b>85.1%</b>	<b>82.5%</b>	<b>3,405</b>
PILE DRIVER (CARPENTER)	178,103	\$ 9,434,841	2.1%	2.9%	86
PAINTER	144,618	\$ 5,455,509	1.7%	1.7%	70
CEMENT MASON	127,176	\$ 4,434,130	1.5%	1.4%	61
BOILERMAKER-BLACKSMITH	119,088	\$ 6,266,247	1.4%	1.9%	57
BUILDING/CONSTRUCTION INSPECTOR	80,575	\$ 3,229,796	1.0%	1.0%	39
ROOFER	50,260	\$ 1,708,590	0.6%	0.5%	24
FIELD SURVEYOR	20,779	\$ 827,217	0.2%	0.3%	10
SHEET METAL WORKER	16,941	\$ 819,660	0.2%	0.3%	8
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	0.1%	0.2%	6
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	0.1%	0.1%	4
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	0.1%	0.1%	3
GLAZIER	4,347	\$ 188,205	0.1%	0.1%	2
PLASTERER	3,750	\$ 132,027	0.0%	0.0%	2
PLASTER TENDER	1,281	\$ 42,303	0.0%	0.0%	1
SHEET METAL WORKER (HVAC)	1,235	\$ 40,800	0.0%	0.0%	1
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMENT	732	\$ 23,727	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROST	628	\$ 36,243	0.0%	0.0%	0
CARPET, LINOLEUM, SOFT FLOOR LAYERS	354	\$ 15,964	0.0%	0.0%	0
TILE SETTER	351	\$ 12,929	0.0%	0.0%	0
TILE FINISHER	277	\$ 5,836	0.0%	0.0%	0
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	0.0%	0.0%	0
TERRAZZO WORKER	199	\$ 8,163	0.0%	0.0%	0
MARBLE FINISHER	40	\$ 1,342	0.0%	0.0%	0
TERRAZZO FINISHER	4	\$ 160	0.0%	0.0%	0
<b>Remaining Apprenticesable Sub-Total</b>	<b>779,018</b>	<b>\$ 33,980,531</b>	<b>9.4%</b>	<b>10.4%</b>	<b>375</b>
<b>Total Non-Apprenticesable</b>	<b>457,235</b>	<b>\$ 23,032,746</b>	<b>5.5%</b>	<b>7.1%</b>	<b>220</b>
<b>Total WSIP-Covered by PLA</b>	<b>8,318,106</b>	<b>\$ 325,421,476</b>	<b>100.0%</b>	<b>100.0%</b>	<b>3,999</b>

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This chart summarizes WSIP PLA-covered craft employment for trades with the largest number of craft hours as of June 30, 2018. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 71% of craft hours worked on PLA-covered projects.



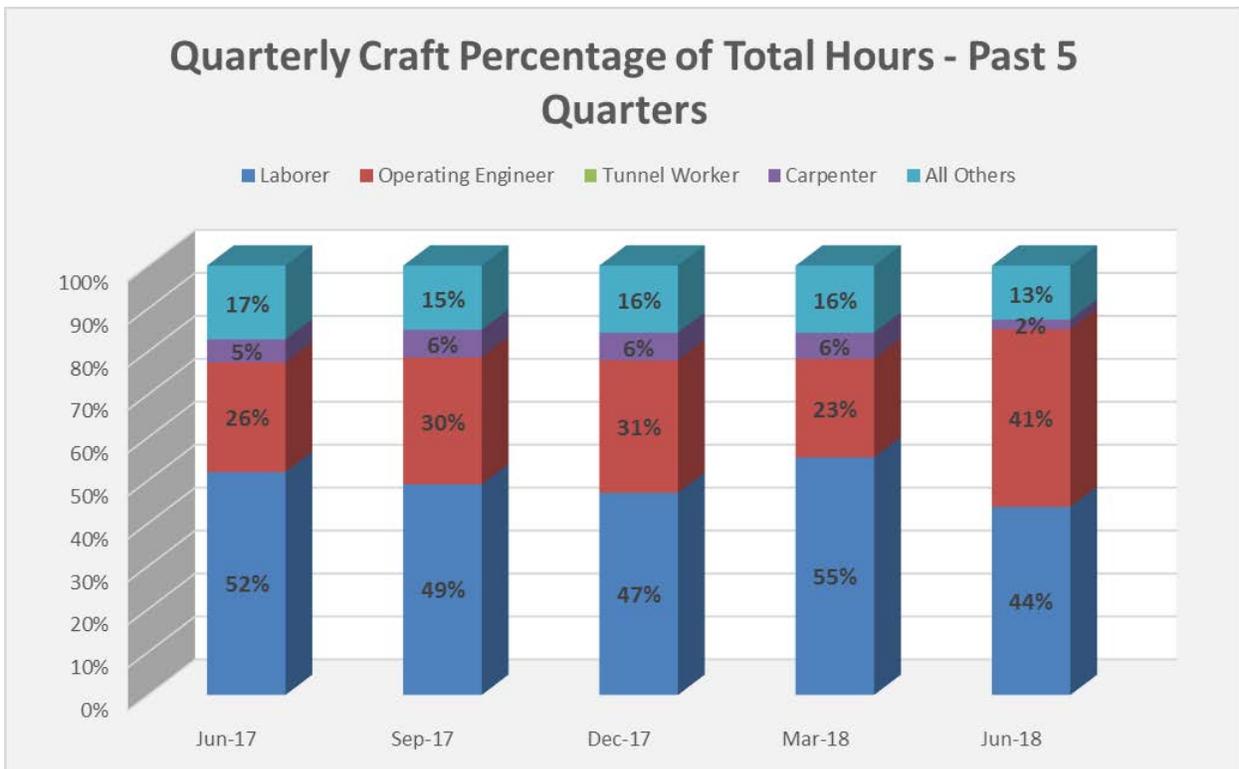
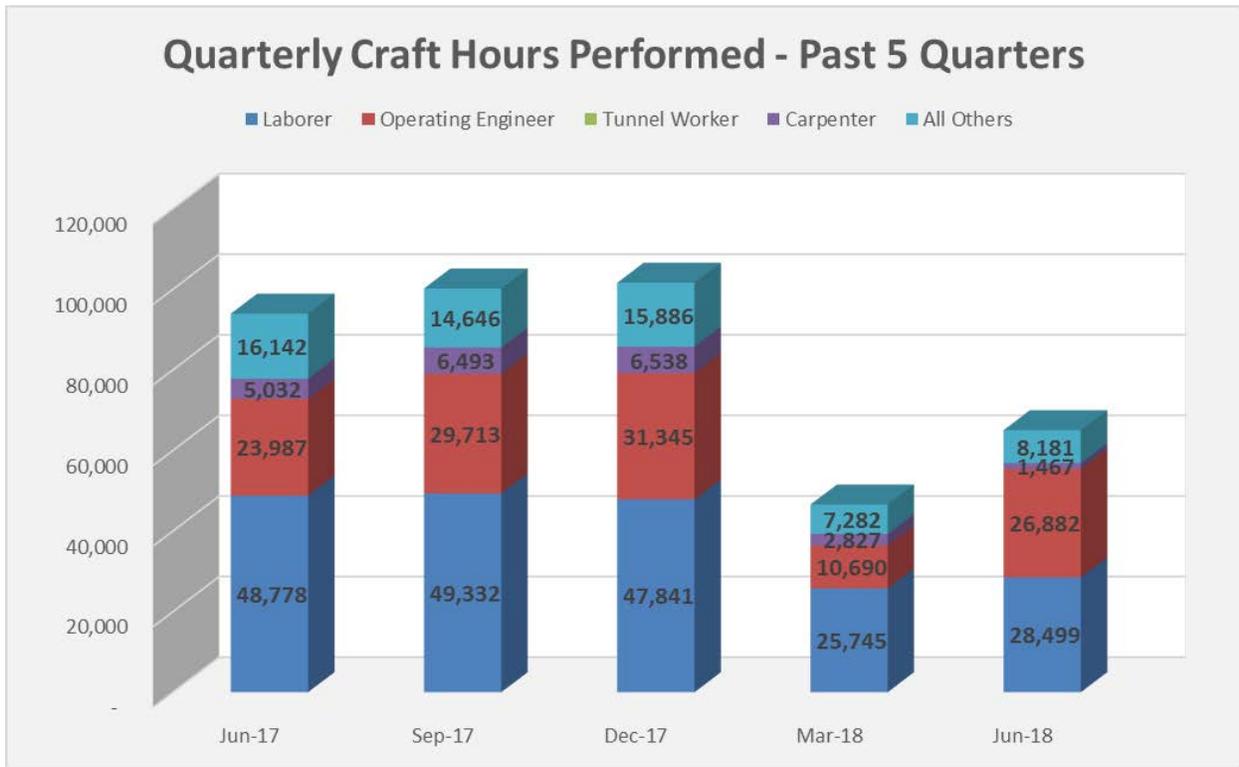
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 6-30-2018 Hours	Quarter Ending 6-30-2018 Wages
LABORER	2,834,731	\$ 86,851,336	28,499	\$ 998,682
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	1,101,137	\$ 46,594,831	10,362	\$ 545,977
OPERATING ENGINEER	619,244	\$ 24,074,743	16,520	\$ 799,585
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY)	51,487	\$ 2,170,668	-	\$ -
OPERATING ENGINEER (SPECIAL SINGLE AND DOUBLE SHIFT)	6,010	\$ 284,585	-	\$ -
<b>OPERATING ENGINEER (COMBINED)</b>	<b>1,777,877</b>	<b>\$ 73,124,827</b>	<b>26,882</b>	<b>\$ 1,345,562</b>
CARPENTER AND RELATED TRADES	719,254	\$ 30,089,740	1,467	\$ 71,509
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	-	\$ -
ELECTRICIAN	455,377	\$ 23,989,727	2,060	\$ 108,154
PLUMBER	417,132	\$ 19,493,840	744	\$ 43,361
IRON WORKER	264,518	\$ 8,966,298	190	\$ 7,450
PILE DRIVER (CARPENTER)	178,103	\$ 9,434,841	1,116	\$ 51,808
PAINTER	144,618	\$ 5,455,509	8	\$ 349
CEMENT MASON	127,176	\$ 4,434,130	711	\$ 25,418
BOILERMAKER-BLACKSMITH	119,088	\$ 6,266,247	-	\$ -
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SUPERVISOR	80,575	\$ 3,229,796	3,099	\$ 128,877
ROOFER	50,260	\$ 1,708,590	75	\$ 2,717
FIELD SURVEYOR	20,779	\$ 827,217	52	\$ 1,835
SHEET METAL WORKER	16,941	\$ 819,660	127	\$ 8,192
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	-	\$ -
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	-	\$ -
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	-	\$ -
GLAZIER	4,347	\$ 188,205	-	\$ -
PLASTERER	3,750	\$ 132,027	-	\$ -
PLASTER TENDER	1,281	\$ 42,303	-	\$ -
SHEET METAL WORKER (HVAC)	1,235	\$ 40,800	-	\$ -
BRICK TENDER	827	\$ 27,956	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER	732	\$ 23,727	-	\$ -
ASBESTOS WORKER, HEAT AND FROST INSULATOR	628	\$ 36,243	-	\$ -
CARPET, LINOLEUM, SOFT FLOOR LAYER	354	\$ 15,964	-	\$ -
TILE SETTER	351	\$ 12,929	-	\$ -
TILE FINISHER	277	\$ 5,836	-	\$ -
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	-	\$ -
TERRAZZO WORKER	199	\$ 8,163	-	\$ -
MARBLE FINISHER	40	\$ 1,342	-	\$ -
TERRAZZO FINISHER	4	\$ 160	-	\$ -
<b>Total Apprenticable</b>	<b>7,860,871</b>	<b>302,388,730</b>	<b>65,029</b>	<b>2,793,912</b>
<b>Non-Apprenticeable</b>				
ASBESTOS REMOVAL WORKER (LABORER)	17,057	\$ 431,301	-	\$ -
DREDGER OPERATING ENGINEER	831	\$ 33,307	-	\$ -
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)	97,725	\$ 7,100,588	-	\$ -
IRONWORKER (DB)	80	\$ 2,772	-	\$ -
LANDSCAPE MAINTENANCE LABORER	1,691	\$ 39,705	-	\$ -
OPERATING ENGINEER (BUILDING CONSTRUCTION)	635	\$ 24,481	-	\$ -
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	95,289	\$ 4,421,654	81	\$ 3,707
PARKING AND HIGHWAY IMPROVEMENT PAINTER	265	\$ 8,680	-	\$ -
SLURRY SEAL WORKER	592	\$ 14,870	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER)	1,123	\$ 56,467	-	\$ -
TEAMSTER	133,449	\$ 6,182,256	1,202	\$ 75,482
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	\$ 291	-	\$ -
TELECOMMUNICATIONS TECHNICIAN	1,160	\$ 37,245	-	\$ -
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001	\$ 35,916	-	\$ -
TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)	1,422	\$ 36,006	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HIGHWAY)	79,393	\$ 3,567,605	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HIGHWAY)	13,201	\$ 585,230	-	\$ -
WATER WELL DRILLER	12,313	\$ 454,372	-	\$ -
<b>Total Non-Apprenticeable</b>	<b>457,235</b>	<b>\$ 23,032,746</b>	<b>1,283</b>	<b>\$ 79,189</b>
<b>Total Apprenticable</b>	<b>7,860,871</b>	<b>\$ 302,388,730</b>	<b>65,029</b>	<b>\$ 2,793,912</b>
<b>Total WSIP PLA</b>	<b>8,318,106</b>	<b>\$ 325,421,476</b>	<b>66,312</b>	<b>\$ 2,873,101</b>

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The charts below represent *Quarterly* participation of the largest four participating trade categories and all others combined on WSIP PLA-covered projects.

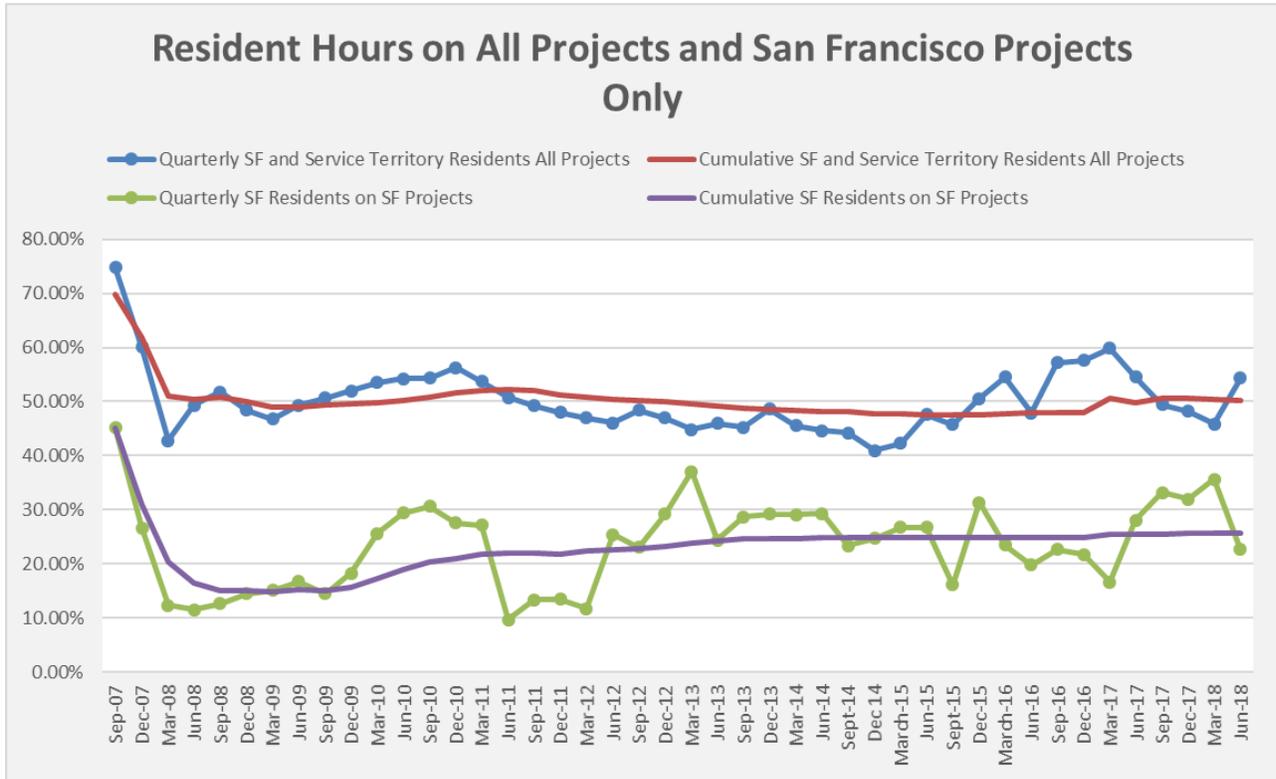


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**Worker Residence on the WSIP PLA**

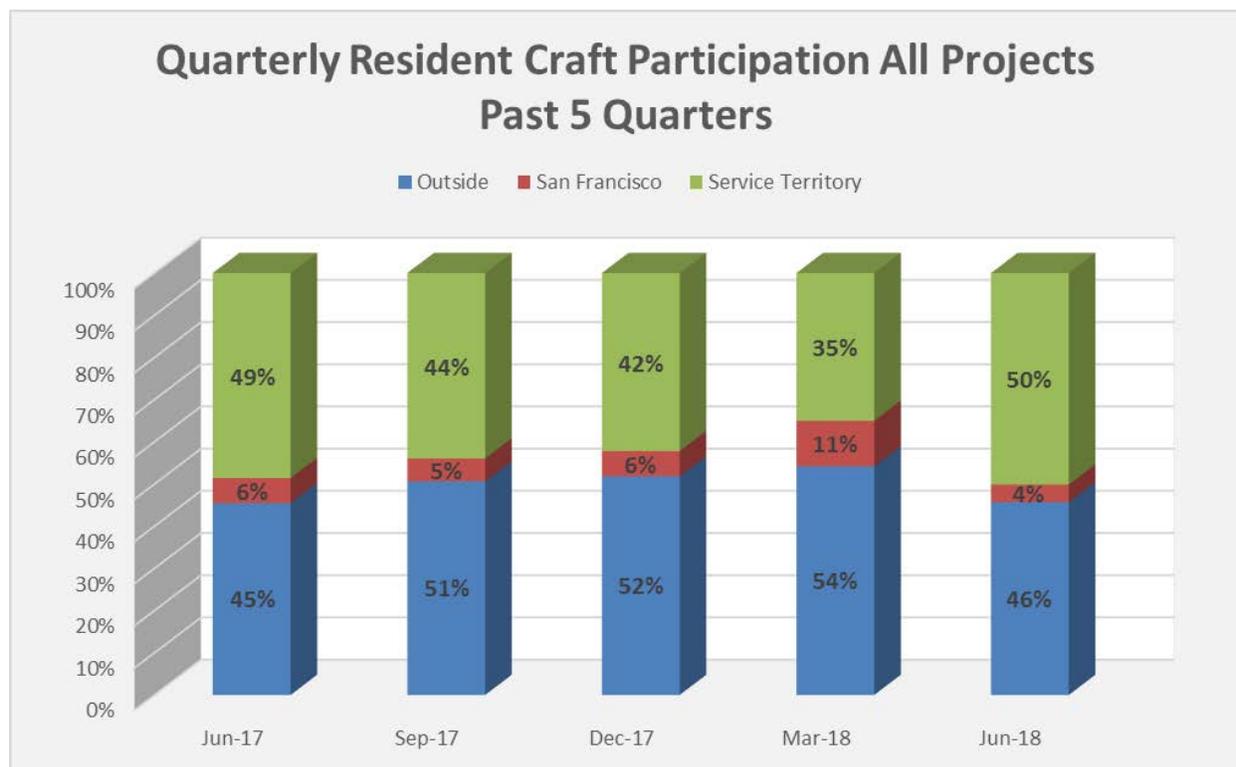
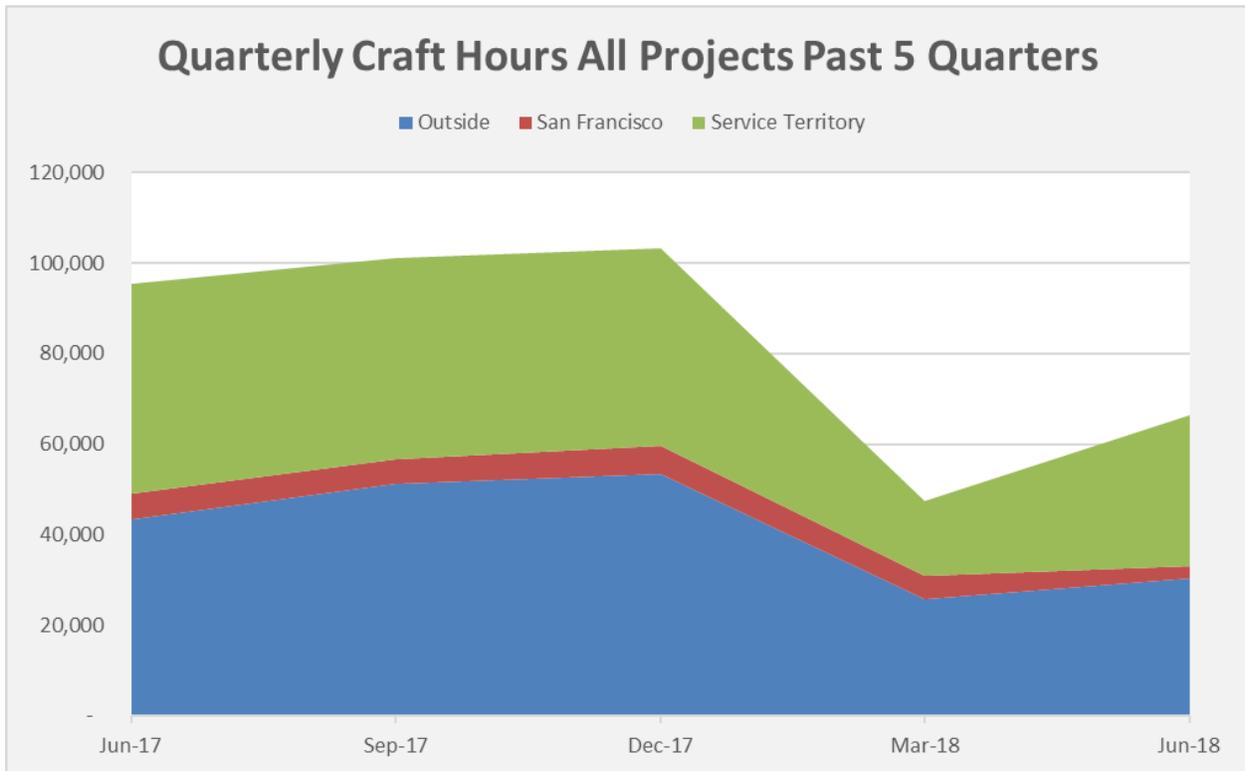
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Regional Service Territory on WSIP PLA-covered projects through June 30, 2018.



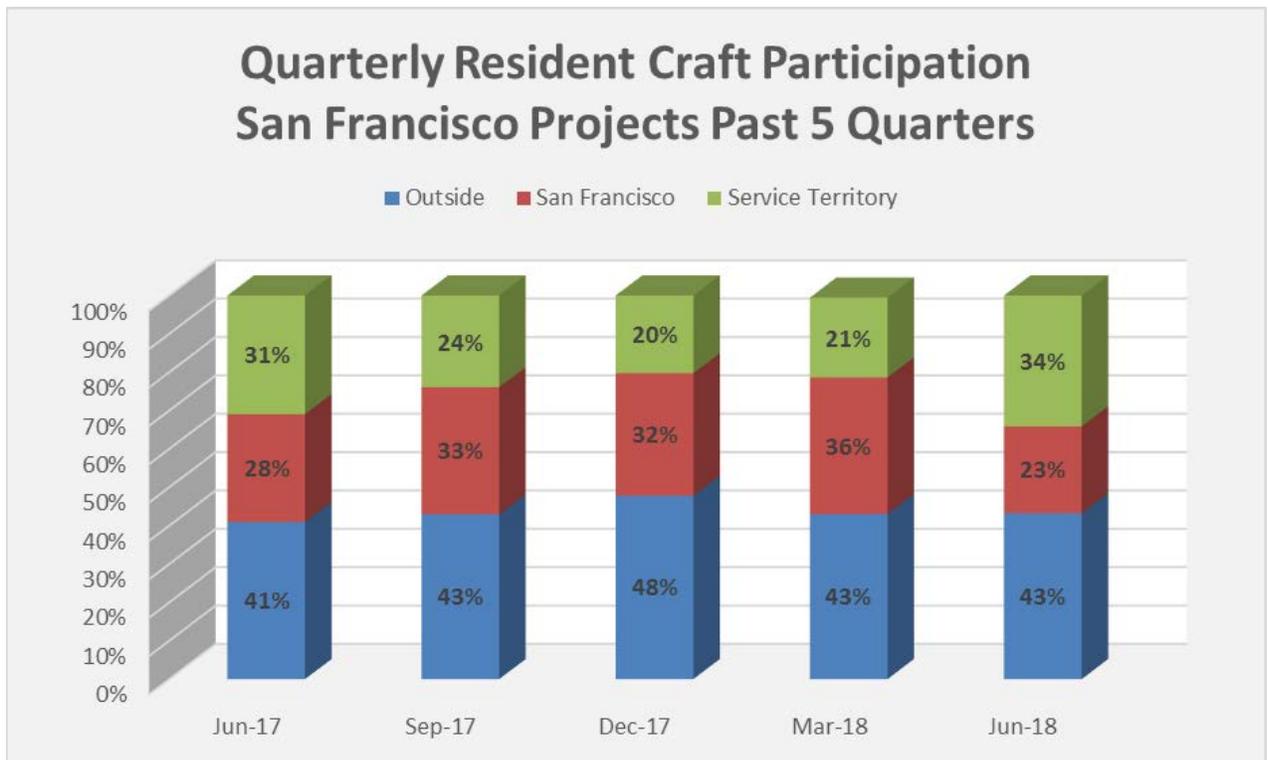
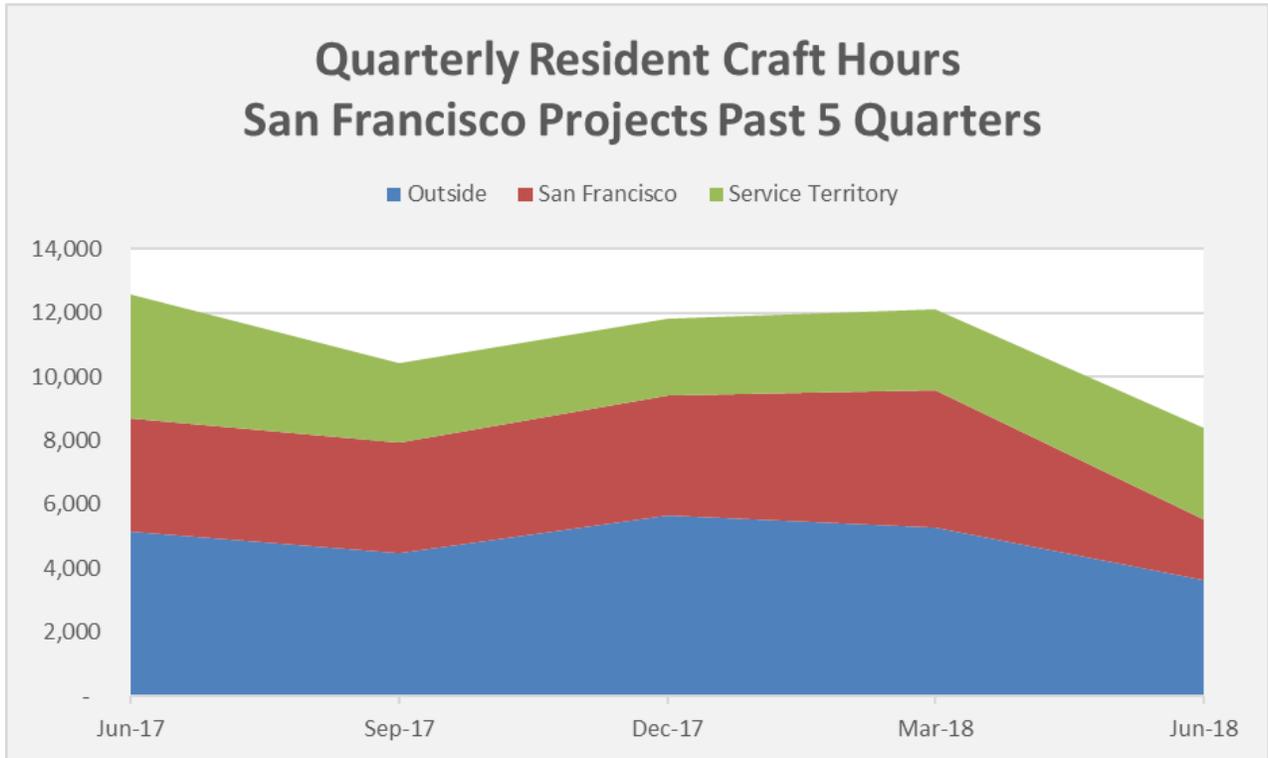
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**Residence on ALL WSIP PLA Projects** - Charted are 54 of the 54 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



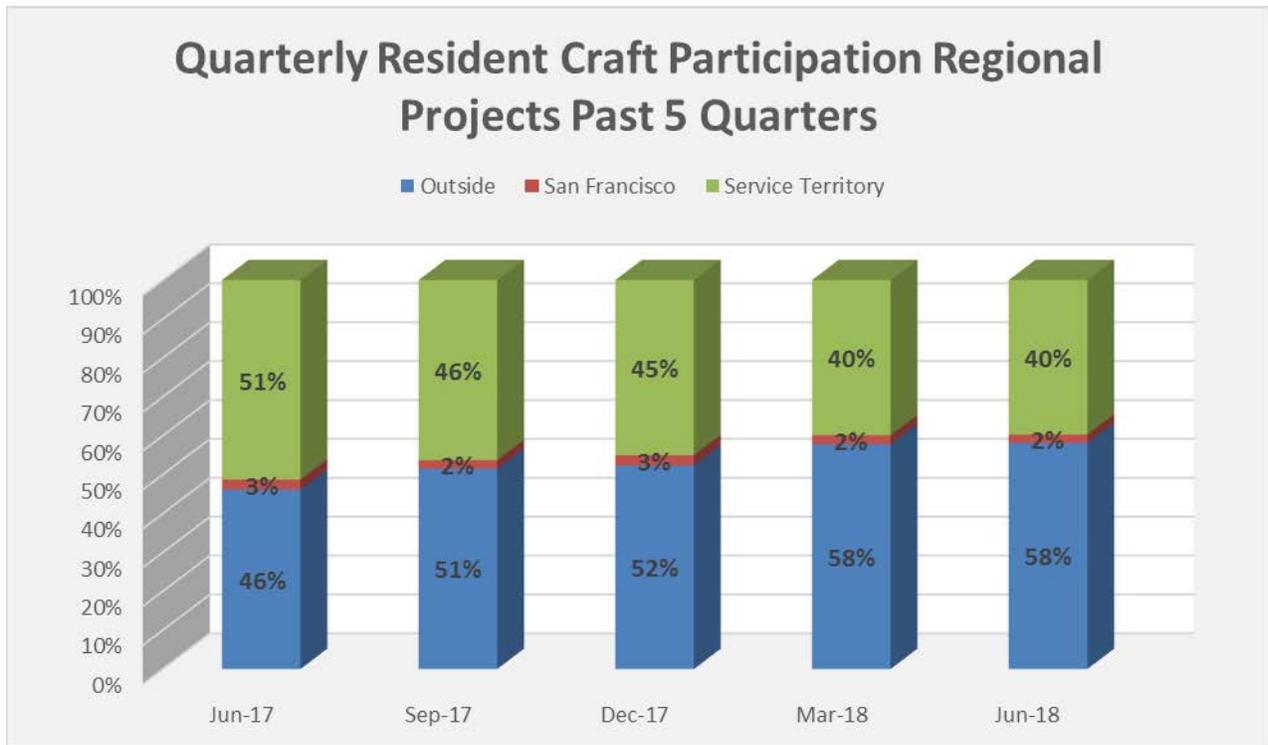
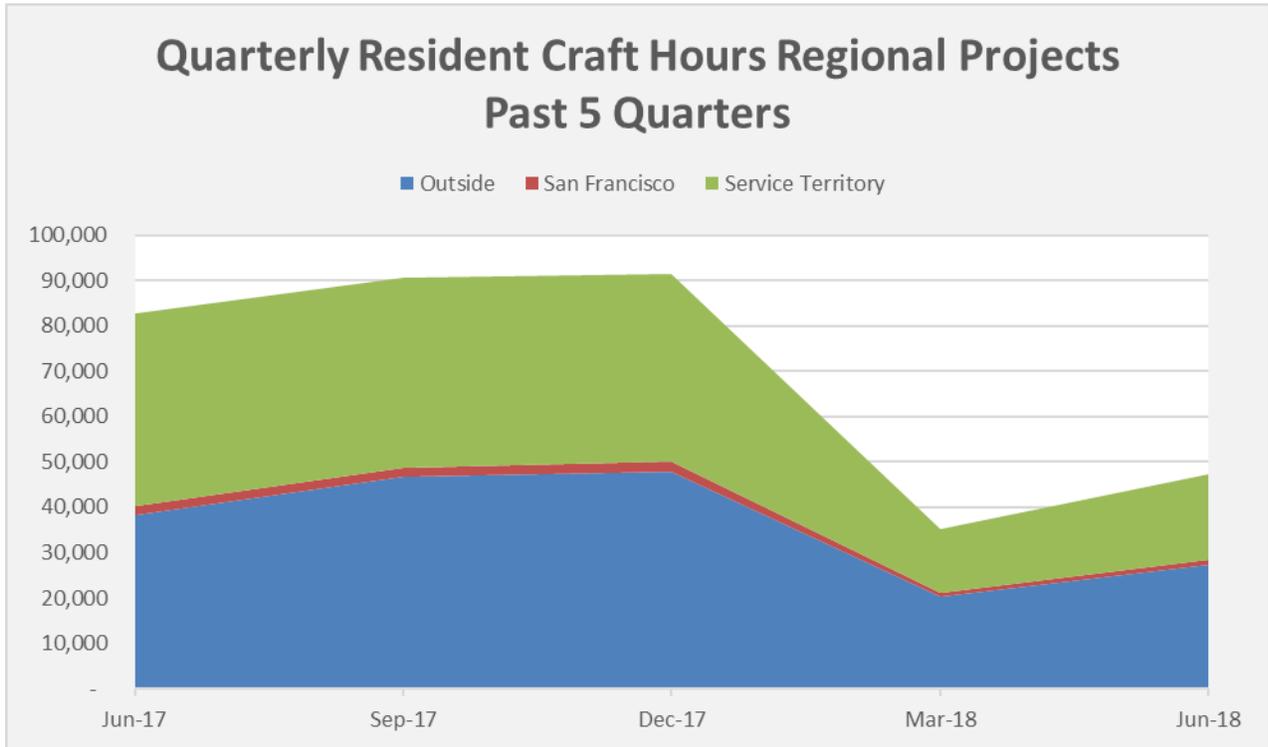
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**Residence on San Francisco-located WSIP PLA Projects** - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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**Residence on Regionally-located WSIP PLA Projects** - Charted are the 38 projects covered by the WSIP PLA located within the Regional Service Territory.



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**Residence by County**

Sorted by Total Craft Hours

<b>WSIP-PLA Employment by Top 20 Counties of Residence</b>					
Inception Through June 30, 2018					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,554,361	\$ 57,304,327	18.7%	2,807	747
Contra Costa	1,106,238	\$ 42,988,790	13.3%	1,871	532
San Mateo	800,062	\$ 31,868,336	9.6%	1,237	385
San Joaquin	780,124	\$ 28,990,581	9.4%	1,173	375
<b>San Francisco</b>	<b>570,125</b>	<b>\$ 21,152,443</b>	<b>6.9%</b>	<b>1,185</b>	<b>274</b>
Santa Clara	466,862	\$ 18,969,138	5.6%	1,222	224
Solano	412,719	\$ 16,281,722	5.0%	787	198
Stanislaus	358,086	\$ 13,063,004	4.3%	596	172
Sacramento	338,962	\$ 13,296,179	4.1%	569	163
Butte	207,985	\$ 8,200,619	2.5%	120	100
Sonoma	181,105	\$ 7,253,276	2.2%	323	87
Calaveras	101,210	\$ 4,475,881	1.2%	80	49
Placer	96,387	\$ 3,980,513	1.2%	130	46
Tuolumne	92,800	\$ 3,565,594	1.1%	95	45
El Dorado	86,722	\$ 3,635,975	1.0%	85	42
Yolo	68,632	\$ 2,646,023	0.8%	92	33
Los Angeles	66,834	\$ 2,853,982	0.8%	140	32
Shasta	65,570	\$ 2,851,057	0.8%	55	32
Clark	63,352	\$ 2,804,384	0.8%	67	30
Riverside	61,500	\$ 2,810,194	0.7%	112	30
<b>Top 20 Counties by Hours</b>	<b>7,479,636</b>	<b>\$ 288,992,018</b>	<b>89.9%</b>	<b>12,727</b>	<b>3,596</b>
All Other Counties	838,470	\$ 36,429,458	10.1%	995	403
<b>WSIP-PLA Total</b>	<b>8,318,106</b>	<b>\$ 325,421,476</b>	<b>100.0%</b>	<b>13,722</b>	<b>3,999</b>

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**San Francisco Residents by Zip Code**

Sorted by Total Craft Hours

<b>Employment by San Francisco Zip Code</b>					
Inception Through June 30, 2018					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	98,394	\$ 3,418,288	17.3%	203	47
94124	89,088	\$ 3,379,263	15.6%	241	43
94110	83,656	\$ 2,829,309	14.7%	171	40
94116	71,570	\$ 3,385,187	12.6%	79	34
94134	42,556	\$ 1,295,054	7.5%	111	20
94122	31,801	\$ 1,385,342	5.6%	61	15
94103	25,402	\$ 789,859	4.5%	36	12
94121	25,336	\$ 990,768	4.4%	48	12
94127	20,099	\$ 721,522	3.5%	21	10
94132	8,932	\$ 348,746	1.6%	34	4
94102	8,640	\$ 384,054	1.5%	20	4
94118	8,394	\$ 411,471	1.5%	20	4
94131	8,101	\$ 307,169	1.4%	21	4
94117	7,957	\$ 200,923	1.4%	17	4
94107	7,730	\$ 288,935	1.4%	20	4
94133	5,854	\$ 216,070	1.0%	9	3
94114	4,889	\$ 189,578	0.9%	13	2
94164	3,451	\$ 98,256	0.6%	2	2
94109	3,403	\$ 100,513	0.6%	19	2
94130	3,391	\$ 73,060	0.6%	11	2
94108	3,348	\$ 71,658	0.6%	8	2
94115	1,773	\$ 51,839	0.3%	22	1
94188	1,391	\$ 33,477	0.2%	5	1
94142	1,318	\$ 57,607	0.2%	7	1
94111	661	\$ 14,669	0.1%	3	0
94166	638	\$ 30,298	0.1%	1	0
94104	523	\$ 13,179	0.1%	2	0
94123	496	\$ 24,939	0.1%	2	0
94129	447	\$ 13,106	0.1%	1	0
94140	288	\$ 11,589	0.1%	1	0
94119	255	\$ 7,976	0.0%	1	0
94147	162	\$ 4,785	0.0%	1	0
94105	141	\$ 2,599	0.0%	1	0
94125	29	\$ 994	0.0%	2	0
94158	16	\$ 362	0.0%	2	0
<b>Total</b>	<b>567,013</b>	<b>\$ 21,051,489</b>	<b>100%</b>	<b>1,183</b>	<b>273</b>
<b>WSIP-PLA Total</b>	<b>8,318,106</b>	<b>\$ 325,421,476</b>	<b>-</b>	<b>13,722</b>	<b>3,999</b>

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**Residence by Craft**

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through June 30, 2018							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
OPERATING ENGINEER (HEAVY AND HIGH VOLTAGE)	1,101,137	19,038	437,734	644,364	1.7%	39.8%	58.5%
CARPENTER AND RELATED TRADES	719,254	78,844	314,377	326,033	11.0%	43.7%	45.3%
OPERATING ENGINEER	619,244	48,684	237,961	332,600	7.9%	38.4%	53.7%
TUNNEL WORKER (LABORER)	612,964	11,171	249,754	352,040	1.8%	40.8%	57.4%
ELECTRICIAN	455,377	24,659	269,589	161,129	5.4%	59.2%	35.4%
PLUMBER	417,132	80,894	145,698	190,541	19.4%	34.9%	45.7%
IRON WORKER	264,518	19,657	99,848	145,014	7.4%	37.8%	54.8%
PILE DRIVER (CARPENTER)	178,103	6,526	56,992	114,585	3.7%	32.0%	64.3%
PAINTER	144,618	8,977	18,767	116,874	6.2%	13.0%	80.8%
CEMENT MASON	127,176	5,856	59,085	62,234	4.6%	46.5%	48.9%
BOILERMAKER-BLACKSMITH	119,088	48	27,196	91,844	0.0%	22.8%	77.1%
BUILDING/CONSTRUCTION INSPECTOR AND SUPERVISOR	80,575	3,943	12,834	63,798	4.9%	15.9%	79.2%
PILE DRIVER (OPERATING ENGINEER - HIGH VOLTAGE)	51,487	499	8,554	42,434	1.0%	16.6%	82.4%
ROOFER	50,260	3,170	28,697	18,393	6.3%	57.1%	36.6%
FIELD SURVEYOR	20,779	1,345	4,131	15,303	6.5%	19.9%	73.7%
SHEET METAL WORKER	16,941	1,940	9,462	5,539	11.5%	55.9%	32.7%
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	1,435	3,041	7,411	12.1%	25.6%	62.4%
BRICKLAYER, BLOCKLAYER	8,574	82	4,397	4,095	1.0%	51.3%	47.8%
ELECTRICAL UTILITY LINEMAN	6,797	-	214	6,582	0.0%	3.2%	96.9%
OPERATING ENGINEER (SPECIAL SINGLE SHIFT RATE)	6,010	47	1,691	4,272	0.8%	28.1%	71.1%
GLAZIER	4,347	1,018	1,432	1,898	23.4%	32.9%	43.7%
PLASTERER	3,750	1,270	958	1,523	33.9%	25.5%	40.6%
PLASTER TENDER	1,281	882	237	163	68.8%	18.5%	12.7%
SHEET METAL WORKER (HVAC)	1,235	277	757	202	22.4%	61.3%	16.4%
BRICK TENDER	827	287	78	462	34.7%	9.4%	55.9%
PARKING AND HIGHWAY IMPROVEMENT WORKER	732	-	398	334	0.0%	54.4%	45.6%
ASBESTOS WORKER, HEAT AND FROST PROTECTION	628	-	268	360	0.0%	42.7%	57.3%
CARPET, LINOLEUM, SOFT FLOOR LAYERS	354	6	89	259	1.7%	25.1%	73.2%
TILE SETTER	351	-	344	7	0.0%	98.0%	2.0%
TILE FINISHER	277	-	237	40	0.0%	85.6%	14.4%
METAL ROOFING SYSTEMS INSTALLER	201	-	201	-	0.0%	100.0%	0.0%
TERRAZZO WORKER	199	-	-	199	0.0%	0.0%	100.0%
MARBLE FINISHER	40	-	40	-	0.0%	100.0%	0.0%
TERRAZZO FINISHER	4	-	4	-	0.0%	100.0%	0.0%
<b>Total Apprenticeable</b>	<b>5,026,141</b>	<b>320,550</b>	<b>1,995,061</b>	<b>2,710,529</b>	<b>6.4%</b>	<b>39.7%</b>	<b>53.9%</b>
LABORER	2,834,731	219,187	1,304,186	1,311,358			
<b>Non-Apprenticeable</b>							
TEAMSTER	133,449	9,387	76,660	47,402	7.0%	57.5%	35.5%
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)	97,725	16,407	64,761	16,557	16.8%	66.3%	16.9%
OPERATING ENGINEER (HEAVY AND HIGH VOLTAGE)	95,289	-	45,433	49,856	0.0%	47.7%	52.3%
TUNNEL/UNDERGROUND (OPERATING ENGINEER)	79,393	70	45,067	34,257	0.1%	56.8%	43.2%
ASBESTOS REMOVAL WORKER (LABORER)	17,057	887	2,270	13,900	5.2%	13.3%	81.5%
TUNNEL/UNDERGROUND (OPERATING ENGINEER)	13,201	-	9,364	3,837	0.0%	70.9%	29.1%
WATER WELL DRILLER	12,313	-	7,536	4,777	0.0%	61.2%	38.8%
LANDSCAPE MAINTENANCE LABORER	1,691	360	1,110	221	21.3%	65.6%	13.1%
TREE TRIMMER (HIGH VOLTAGE LINE CLIMBER)	1,422	32	1,191	199	2.3%	83.8%	14.0%
TELECOMMUNICATIONS TECHNICIAN	1,160	-	1,088	72	0.0%	93.8%	6.2%
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER)	1,123	-	282	841	0.0%	25.1%	74.9%
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001	-	789	212	0.0%	78.8%	21.2%
DREDGER OPERATING ENGINEER	831	-	-	831	0.0%	0.0%	100.0%
OPERATING ENGINEER (BUILDING CONSTRUCTION)	635	133	229	273	20.9%	36.1%	43.0%
SLURRY SEAL WORKER	592	-	321	271	0.0%	54.3%	45.7%
PARKING AND HIGHWAY IMPROVEMENT WORKER	265	-	167	98	0.0%	63.0%	37.0%
IRONWORKER (DB)	80	-	-	80	0.0%	0.0%	100.0%
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	-	-	11	0.0%	0.0%	100.0%
<b>Total Non-Apprenticeable</b>	<b>457,235</b>	<b>27,276</b>	<b>256,267</b>	<b>173,692</b>	<b>6.0%</b>	<b>56.1%</b>	<b>38.0%</b>
<b>Total WSIP PLA</b>	<b>8,318,106</b>	<b>567,013</b>	<b>3,555,514</b>	<b>4,195,579</b>	<b>6.8%</b>	<b>42.7%</b>	<b>50.4%</b>

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**Residence by Project**

Sorted by Total Hours

Employment Summary - Cumulative Employment of Residents by Project							
Craft Employment Summary Through June 30, 2018							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2551 - Calaveras Dam Replaceme	1,396,759	5,702	581,400	809,656	0.4%	41.6%	58.0%
WD-2596 - Harry Tracy Water Treatme	1,013,917	63,555	381,991	568,371	6.3%	37.7%	56.1%
WD-2581 - New Irvington Tunnel	730,584	3,538	335,744	391,302	0.5%	46.0%	53.6%
WD-2531 - Bay Division Pipelines Relia	583,318	18,599	335,644	229,074	3.2%	57.5%	39.3%
WD-2601 - Crystal Springs / San Andre	489,176	25,360	194,232	269,583	5.2%	39.7%	55.1%
WD-2582 - Sunol Valley Water Treatme	462,447	11,765	202,938	247,744	2.5%	43.9%	53.6%
WD-2542 - Bay Division Pipeline No. 5	288,044	2,903	135,042	150,100	1.0%	46.9%	52.1%
CS-936 - Advanced Meter Infrastructure	227,027	72,108	84,621	70,298	31.8%	37.3%	31.0%
WD-2541 - Bay Division Pipeline No. 5	208,255	14,163	86,775	107,317	6.8%	41.7%	51.5%
WD-2539 - University Mound Reservoir	187,032	50,004	44,847	92,181	26.7%	24.0%	49.3%
WD-2627R - Sutro Reservoir Rehabilitat	154,545	49,239	39,346	65,960	31.9%	25.5%	42.7%
WD-2668 - Regional Groundwater Stora	150,471	26,438	76,670	47,364	17.6%	51.0%	31.5%
HH-935C - San Joaquin Pipeline Syster	144,012	83	82,510	61,420	0.1%	57.3%	42.6%
DB-116 - Tesla Treatment Facility	141,910	2,062	96,192	43,656	1.5%	67.8%	30.8%
WD-2729 - Fish Passage Facilities Wit	140,248	1,350	62,120	76,778	1.0%	44.3%	54.7%
WD-2629 - Seismic Upgrade of Bay Div	134,433	567	56,634	77,233	0.4%	42.1%	57.5%
WD-2552 - Alameda Siphon No. 4 Proj	129,485	1,450	61,738	66,297	1.1%	47.7%	51.2%
WD-2555 - Crystal Springs Pipeline No	127,805	34,336	35,415	58,054	26.9%	27.7%	45.4%
WD-2498 - New Crystal Springs Bypas	117,860	6,825	61,288	49,748	5.8%	52.0%	42.2%
WD-2652 - Bioregional Habitat Restora	110,655	3,388	49,991	57,276	3.1%	45.2%	51.8%
WD-2548 - Lake Merced Pump Station	101,050	23,185	27,768	50,098	22.9%	27.5%	49.6%
HH-935B - San Joaquin Pipeline Syster	100,492	426	45,319	54,747	0.4%	45.1%	54.5%
WD-2591 - Lower Crystal Springs Dam	98,656	5,022	57,594	36,040	5.1%	58.4%	36.5%
HH-935A - San Joaquin Pipeline Syster	84,483	158	47,626	36,699	0.2%	56.4%	43.4%
WD-2513 - San Andreas Pipeline No.3	83,503	6,294	30,974	46,234	7.5%	37.1%	55.4%
WD-2575 - San Antonio Backup Pipelin	75,263	9,125	33,899	32,239	12.1%	45.0%	42.8%
WD-2504 - Stanford Heights Reservoir S	74,300	11,120	19,925	43,256	15.0%	26.8%	58.2%
WD-2501 - Alemany Pump Station	74,085	7,565	28,862	37,658	10.2%	39.0%	50.8%
WD-2727 - Peninsula Pipeline Seismic	69,772	14,069	23,830	31,873	20.2%	34.2%	45.7%
WD-2543 - North University Mound Sys	53,265	10,250	18,206	24,809	19.2%	34.2%	46.6%
WD-2621R - San Francisco Groundwat	52,286	10,969	12,576	28,741	21.0%	24.1%	55.0%
WD-2573 - Pulgas Balancing Reservoir	50,367	5,166	25,129	20,073	10.3%	49.9%	39.9%
WD-2568 - BDPL Nos. 3&4 Crossover f	47,910	4,908	15,264	27,738	10.2%	31.9%	57.9%
WD-2641R - Habitat Reserve Program,	44,018	7,592	11,135	25,292	17.2%	25.3%	57.5%
WD-2564 - Harry Tracy Water Treatme	43,049	7,220	12,879	22,950	16.8%	29.9%	53.3%
WD-2798 - San Francisco Westside Re	36,407	12,821	9,973	13,614	35.2%	27.4%	37.4%
WD-2654R - Peninsula Vegetation Rem	30,464	4,839	9,727	15,897	15.9%	31.9%	52.2%
WD-2469 - Forest Knolls Pump Station	26,553	3,828	8,582	14,143	14.4%	32.3%	53.3%
WD-2666 - Bioregional Habitat Restora	23,492	46	16,571	6,876	0.2%	70.5%	29.3%
WD-2623 - Harding Park Recycled Wat	22,727	4,530	13,464	4,734	19.9%	59.2%	20.8%
WD-2651R - Peninsula 2011 Watershed	22,569	557	11,609	10,403	2.5%	51.4%	46.1%
WD-2529 - Noe Valley Transmission M	22,511	3,918	7,931	10,662	17.4%	35.2%	47.4%
WD-2665 - Bay Division Pipeline Reliab	21,967	341	7,653	13,974	1.6%	34.8%	63.6%
WD-2556 - Baden and San Pedro Valve	19,939	4,570	10,634	4,735	22.9%	53.3%	23.7%
WD-2622 - San Francisco Groundwater	17,782	4,360	3,453	9,969	24.5%	19.4%	56.1%
WD-2566 - San Antonio Pump Station	14,916	101	12,105	2,711	0.7%	81.1%	18.2%
HH-914R - Roselle Crossover Improvem	12,859	0	8,819	4,040	0.0%	68.6%	31.4%
HH-953 - Tesla Portal Protection	11,512	4,989	4,453	2,071	43.3%	38.7%	18.0%
WD-2511 - Standby Power Facilities, V	11,275	182	6,599	4,494	1.6%	58.5%	39.9%
WD-2640 - Bioregional Habitat Restora	10,621	1,259	4,182	5,180	11.9%	39.4%	48.8%
WD-2776 - San Francisco Westside Re	7,819	2,640	2,557	2,623	33.8%	32.7%	33.5%
WD-2809 - San Francisco Groundwater	6,629	1,421	546	4,662	21.4%	8.2%	70.3%
WD-2600 - Regional Groundwater Stora	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2589 - Supervisory Control and Dat	1,498	113	242	1,144	7.6%	16.1%	76.3%
<b>Total WSIP PLA</b>	<b>8,318,106</b>	<b>567,013</b>	<b>3,555,514</b>	<b>4,195,579</b>	<b>6.8%</b>	<b>42.7%</b>	<b>50.4%</b>

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**Apprentice Utilization**

The WSIP PLA supports the apprentice ratios provided by the State of California’s, Division of Apprenticeship Standards, generally one apprentice hour to every five journey-level hours.

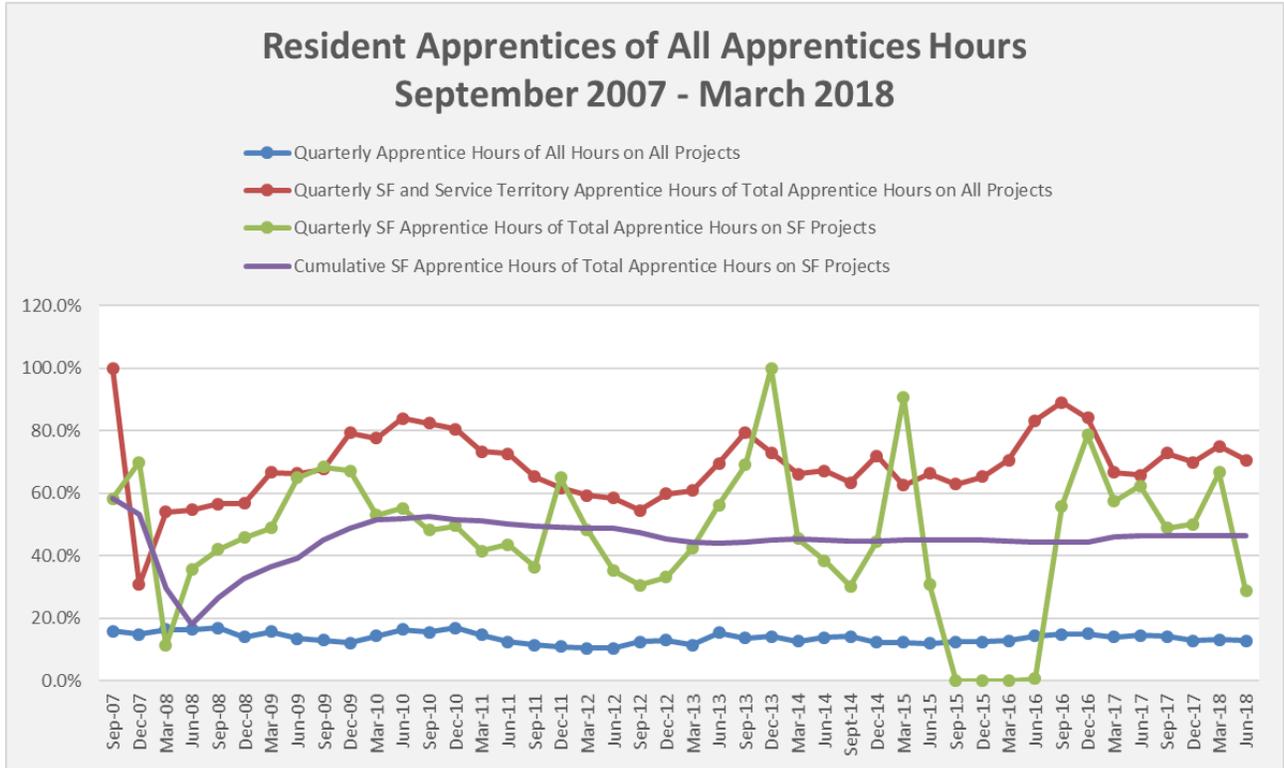
Through the end of the current quarter, 13.3% of craft hours in apprenticeable trades have been worked by apprentices. 17% of apprentice hours were worked by San Francisco residents and 56% were worked by residents of the Regional Service Territory, or 73% combined.

Sorted by Total Craft Hours

Craft	Total Hours	Total Apprentice Hours	Apprentice Hours			Apprentice Utilization			Resident Apprentice %		
			San Francisco Hours	SFPUC ST Hours	Outside Hours	Apprentice % of Total Craft Hours	San Francisco Apprentice % of Total Craft Hours	Service Territory Apprentice % of Total Craft Hours	% of Craft Apprentice Hours Performed by San Francisco Residents	% of Craft Apprentice Hours Performed by Service Territory Residents	% of Craft Apprentice Hours Performed by Outside Residents
A - OPERATING ENGINEER (HEAVY AND	1,101,137	20,663	3,912	11,459	5,293	1.9%	0.4%	1.0%	18.9%	55.5%	25.6%
A - CARPENTER AND RELATED TRADES	719,254	113,022	28,032	54,199	30,791	15.7%	3.9%	7.5%	24.8%	48.0%	27.2%
A - OPERATING ENGINEER	619,244	181,547	25,973	81,907	73,668	29.3%	4.2%	13.2%	14.3%	45.1%	40.6%
A - TUNNEL WORKER (LABORER)	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - ELECTRICIAN	455,377	84,554	9,709	59,366	15,479	18.6%	2.1%	13.0%	11.5%	70.2%	18.3%
A - PLUMBER	417,132	115,113	32,748	56,070	26,295	27.6%	7.9%	13.4%	28.4%	48.7%	22.8%
A - IRON WORKER	264,518	58,696	12,179	25,192	21,326	22.2%	4.6%	9.5%	20.7%	42.9%	36.3%
A - PILE DRIVER (CARPENTER)	178,103	18,150	4,451	9,448	4,252	10.2%	2.5%	5.3%	24.5%	52.1%	23.4%
A - PAINTER	144,618	24,999	1,809	6,702	16,488	17.3%	1.3%	4.6%	7.2%	26.8%	66.0%
A - CEMENT MASON	127,176	5,903	3,641	1,110	1,152	4.6%	2.9%	0.9%	61.7%	18.8%	19.5%
A - BOILERMAKER-BLACKSMITH	119,088	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - BUILDING/CONSTRUCTION INSPECTOR	80,575	3,265	5	1,242	2,018	4.1%	0.0%	1.5%	0.2%	38.0%	61.8%
A - PILE DRIVER (OPERATING ENGINEER)	51,487	30	-	-	30	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%
A - ROOFER	50,260	12,579	1,580	6,249	4,750	25.0%	3.1%	12.4%	12.6%	49.7%	37.8%
A - FIELD SURVEYOR	20,779	710	11	67	632	3.4%	0.1%	0.3%	1.6%	9.4%	89.0%
A - SHEET METAL WORKER	16,941	1,806	16	931	860	10.7%	0.1%	5.5%	0.9%	51.5%	47.6%
A - DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	473	60	283	130	4.0%	0.5%	2.4%	12.7%	59.8%	27.5%
A - BRICKLAYER, BLOCKLAYER	8,574	2,682	82	573	2,027	31.3%	1.0%	6.7%	3.1%	21.3%	75.6%
A - ELECTRICAL UTILITY LINEMAN	6,797	79	-	79	-	1.2%	0.0%	1.2%	0.0%	100.0%	0.0%
A - OPERATING ENGINEER (SPECIAL SERVICE)	6,010	1,162	-	1,047	115	19.3%	0.0%	17.4%	0.0%	90.1%	9.9%
A - GLAZIER	4,347	564	402	20	142	13.0%	9.2%	0.5%	71.3%	3.5%	25.2%
A - PLASTERER	3,750	347	136	-	211	9.3%	3.6%	0.0%	39.2%	0.0%	60.8%
A - PLASTER TENDER	1,281	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - SHEET METAL WORKER (HVAC)	1,235	1,071	277	627	168	86.7%	22.4%	50.7%	25.8%	58.5%	15.7%
A - BRICK TENDER	827	24	24	-	-	2.9%	2.9%	0.0%	100.0%	0.0%	0.0%
A - PARKING AND HIGHWAY IMPROVEMENT	732	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - ASBESTOS WORKER, HEAT AND FIRE PROTECTIVE	628	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - CARPET, LINOLEUM, SOFT FLOOR LAYERS	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - TILE SETTER	351	20	-	20	-	5.7%	0.0%	5.7%	0.0%	100.0%	0.0%
A - TILE FINISHER	277	40	-	-	40	14.4%	0.0%	0.0%	0.0%	0.0%	100.0%
A - METAL ROOFING SYSTEMS INSTALLER	201	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - TERRAZZO WORKER	199	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - MARBLE FINISHER	40	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - TERRAZZO FINISHER	4	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sub-Total Apprenticeable	5,026,141	649,875	125,085	317,848	206,943	12.9%	2.5%	6.3%	19.2%	48.9%	31.8%
A - LABORER	2,834,731	395,239	47,818	266,619	80,802	13.9%	1.7%	9.4%	12.1%	67.5%	20.4%
A-Operating Engineer (COMBINED)	1,777,877	203,401	29,884	94,412	79,105	11.4%	1.7%	5.3%	14.7%	46.4%	38.9%
Total Apprenticeable	7,860,871	1,045,114	172,902	584,467	287,745	13.3%	2.2%	7.4%	16.5%	55.9%	27.5%
Total Non-Apprenticeable	457,235										
Total WSIP - Covered by PLA	8,318,106										

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For the three months ending June 30, 2018, 29% of apprentice hours were worked by San Francisco resident apprentices on San Francisco-located WSIP PLA projects (green line). As the WISP program comes to a close, there are fewer opportunities for apprentices to perform work on projects resulting in the decrease of apprentice participation.



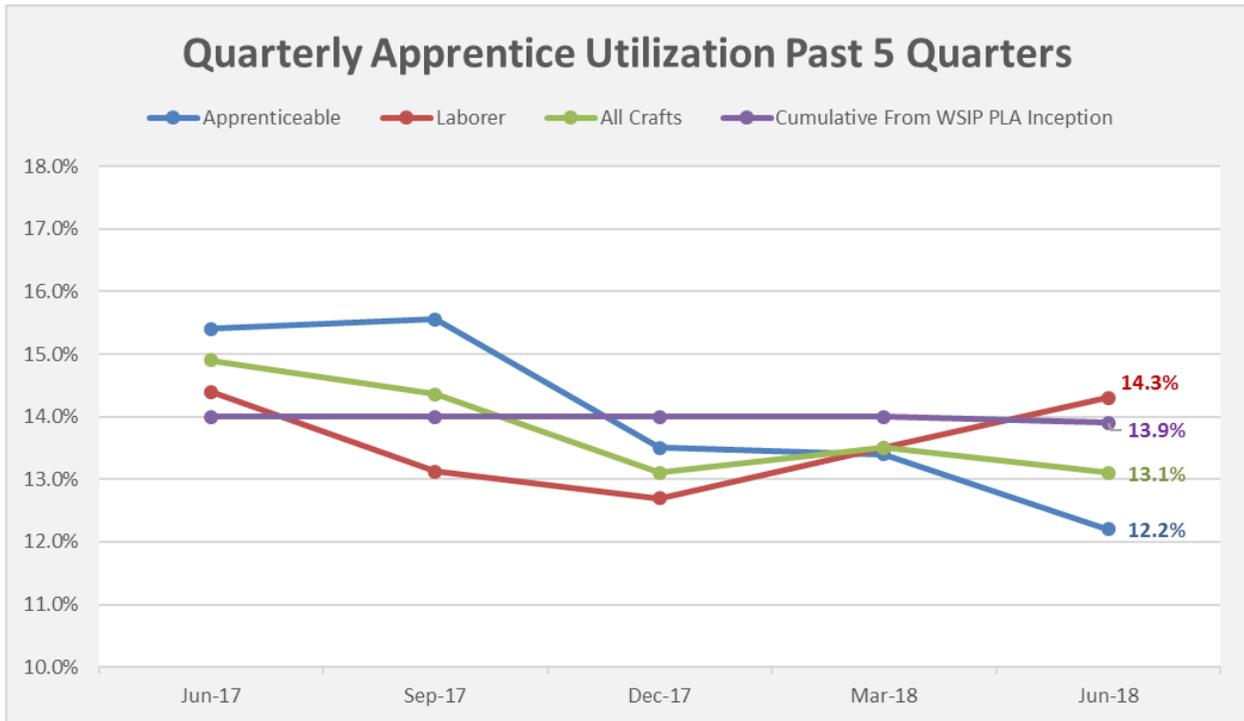
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 13.9%. This is slightly higher than the 13.3% mentioned in the *Apprentice Utilization by Craft* chart (page 20) because the chart below reflects the Total Apprenticeable and Laborer Hours which is slightly lower than the Total Craft Hours used to calculate the percentage for crafts.

WSIP - Covered by PLA Apprentice Utilization By Project Inception Through June 30, 2018											
Project	Apprentice Utilization By Project										
	All Workers Hours				Apprentice Hours				Apprentice Utilization %		
	Total Craft Hours	Total Hours of Apprenticeable Trades	Total Non-Apprenticeable Hours	Total Laborer Hours	Total Apprenticeable and Laborer Hours	Apprenticeable Trades Hours	Apprentice Laborer Hours	Total Apprentice Hours	Apprenticeable Trades %	Apprentice Laborer %	Total Apprentice %
CS-936 - Advanced Meter Infra	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
WD-2498 - New Crystal Springs	117,860	51,381	54,937	11,543	62,923	12,361	5,252	17,612	24.1%	45.5%	28.0%
WD-2504 - Stanford Heights Re	74,300	40,450	-	33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2539 - University Mound R	187,032	106,332	1,199	79,502	185,834	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2729 - Fish Passage Facil	140,248	92,915	5,918	41,415	134,330	19,675	4,250	23,924	21.2%	10.3%	17.8%
WD-2573 - Pulgas Balancing R	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2627R - Sutro Reservoir R	154,545	77,338	8,900	68,308	145,645	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2641R - Habitat Reserve P	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
WD-2668 - Regional Groundwa	150,471	94,220	1,079	55,172	149,392	18,326	7,024	25,350	19.4%	12.7%	17.0%
WD-2798 - San Francisco Wes	36,407	6,390	-	30,017	36,407	1,118	6,037	7,155	17.5%	20.1%	19.7%
HH-914R - Roselle Crossover Ir	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
DB-116 - Tesla Treatment Faci	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2582 - Sunol Valley Water	462,447	293,884	13,009	155,554	449,438	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2469 - Forest Knolls Pump	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2596 - Harry Tracy Water	1,013,917	674,623	40,826	298,468	973,091	108,428	35,995	144,423	16.1%	12.1%	14.8%
WD-2651R - Peninsula 2011 W	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2589 - Supervisory Control	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2640 - Bioregional Habitat	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2552 - Alameda Siphon No	129,485	75,401	8,009	46,075	127,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2555 - Crystal Springs Pip	127,805	49,126	9,741	68,938	118,064	7,559	5,394	12,953	15.4%	7.8%	11.0%
WD-2548 - Lake Merced Pump	101,050	72,283	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
WD-2727 - Peninsula Pipeline	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2575 - San Antonio Backu	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2513 - San Andreas Pipeli	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
WD-2621R - San Francisco Gr	52,286	31,494	-	20,792	52,286	4,322	1,903	6,225	13.7%	9.2%	11.9%
WD-2501 - Alemany Pump Sta	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2601 - Crystal Springs / S	489,176	300,936	57,401	130,839	431,775	37,806	10,916	48,722	12.6%	8.3%	11.3%
WD-2568 - BDPL Nos. 3&4 Cr	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2591 - Lower Crystal Sprin	98,656	40,985	1,323	56,348	97,333	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2629 - Seismic Upgrade of	134,433	73,476	1,729	59,228	132,704	8,299	13,292	21,590	11.3%	22.4%	16.3%
WD-2541 - Bay Division Pipeli	208,255	89,103	12,808	106,345	195,448	10,026	10,170	20,196	11.3%	9.6%	10.3%
HH-953 - Tesla Portal Protecti	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2566 - San Antonio Pump	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
WD-2551 - Calaveras Dam Rep	1,396,759	792,830	33,932	569,997	1,362,827	80,496	96,266	176,763	10.2%	16.9%	13.0%
HH-935A - San Joaquin Pipelin	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935C - San Joaquin Pipelin	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2564 - Harry Tracy Water	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2623 - Harding Park Recyc	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2556 - Baden and San Ped	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2531 - Bay Division Pipeli	583,318	164,684	339,239	79,394	244,078	14,153	18,238	32,391	8.6%	23.0%	13.3%
WD-2542 - Bay Division Pipeli	288,044	90,616	31,498	165,930	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2652 - Bioregional Habitat	110,655	19,428	2,526	88,700	108,128	1,492	19,170	20,661	7.7%	21.6%	19.1%
HH-935B - San Joaquin Pipelin	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2511 - Standby Power Fac	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2581 - New Inrington Tunne	730,584	546,878	99,798	83,908	630,786	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2622 - San Francisco Gro	17,782	4,623	1,682	11,477	16,100	266	1,827	2,092	5.7%	15.9%	13.0%
WD-2809 - San Francisco Gro	6,629	2,363	-	4,266	6,629	132	126	258	5.6%	2.9%	3.9%
WD-2543 - North University Mo	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2776 - San Francisco Wes	7,819	3,779	81	3,959	7,738	126	482	608	3.3%	12.2%	7.9%
WD-2665 - Bay Division Pipeli	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2666 - Bioregional Habitat	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2654R - Peninsula Vegetat	30,464	5,842	189	24,433	30,275	24	1,694	1,718	0.4%	6.9%	5.7%
WD-2600 - Regional Groundwa	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2529 - Noe Valley Transm	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
<b>WSIP - Covered by PLA (53 Pr</b>	<b>8,318,106</b>	<b>4,700,175</b>	<b>782,904</b>	<b>2,835,027</b>	<b>7,535,202</b>	<b>649,877</b>	<b>395,237</b>	<b>1,045,114</b>	<b>13.8%</b>	<b>13.9%</b>	<b>13.9%</b>

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending June 30, 2018. The Laborers continue to work a considerable amount of hours and are highlighted below. Percentages compared to last quarter are as follows; the Laborers Apprentice Utilization increased by 0.8%, the Apprenticeable trades decreased by 1.2% , and the Laborer and Apprenticeable crafts combined (All Crafts) decreased by 0.4%. However, the overall cumulative percentage has dropped 0.1%.



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**Jobs Training and Opportunities Program (JTOP)**

As of June 30, 2018, the SFPUC and City staff has referred 646 apprentices and 366 journeypersons to WSIP PLA-covered projects from our community-based partners in Job Training Programs and through the Labor Unions. These 1012 individuals represent 11.7% of the total hours worked and 9.0% of the wages earned.\*

WSIP-PLA Referred Workers By Job Training and Opportunities Program Inception Through June 30, 2018						
Referred Apprentice Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Apprentices	% Of Total Apprentice Hours	% Of Total Apprentice Wages
CityBuild Academy	52	38,303	\$ 947,231	2.8%	3.7%	3.4%
CityBuild Referral Services	75	34,842	\$ 910,793	4.0%	3.3%	3.3%
Cypress Mandela Training Center, Inc.	54	84,376	\$ 2,124,175	2.9%	8.1%	7.7%
Helmets to Hardhats	1	3,339	\$ 80,910	0.1%	0.3%	0.3%
Job Corps	1	4,328	\$ 129,666	0.1%	0.4%	0.5%
JobTrain's Project Build	74	91,190	\$ 2,175,834	3.9%	8.7%	7.9%
Northern California Construction and Training, Inc.	7	7,256	\$ 158,831	0.4%	0.7%	0.6%
San Joaquin County Office of Ed. YouthBuild	11	18,303	\$ 397,007	0.6%	1.8%	1.4%
SFPUC	62	55,499	\$ 1,446,777	3.3%	5.3%	5.2%
Sponser	6	34,555	\$ 978,683	0.3%	3.3%	3.5%
Union	301	225,461	\$ 5,835,536	16.0%	21.6%	21.1%
YCD	2	351	\$ 7,059	0.1%	0.0%	0.0%
<b>Total Referred Apprentice Workers</b>	<b>646</b>	<b>597,799</b>	<b>\$ 15,192,502</b>	<b>34.3%</b>	<b>57.2%</b>	<b>55.0%</b>
Non-Referred Apprentices	1,239	447,315	\$ 12,432,348	65.7%	42.8%	45.0%
<b>Total Apprentices</b>	<b>1,885</b>	<b>1,045,114</b>	<b>\$ 27,624,850</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Referred Journeyman Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Journey Level Workers	% Of Total Journey Hours	% Of Total Journey Wages
CityBuild Academy	11	8,509	\$ 287,090	0.1%	0.1%	0.1%
CityBuild Referral Services	83	53,202	\$ 2,256,558	0.8%	0.7%	0.8%
Cypress Mandela Training Center, Inc.	17	28,551	\$ 1,108,909	0.2%	0.4%	0.4%
Helmets to Hardhats	1	13	\$ 498	0.0%	0.0%	0.0%
Job Corps	1	37	\$ 1,489	0.0%	0.0%	0.0%
JobTrain's Project Build	15	18,274	\$ 569,742	0.1%	0.3%	0.2%
Northern California Construction and Training, Inc.	1	1,640	\$ 42,809	0.0%	0.0%	0.0%
San Joaquin County Office of Ed. YouthBuild	1	312	\$ 7,924	0.0%	0.0%	0.0%
SFPUC	33	44,477	\$ 1,538,740	0.3%	0.6%	0.5%
Sponser	2	9,162	\$ 344,843	0.0%	0.1%	0.1%
Union	201	219,471	\$ 8,341,244	1.9%	3.0%	2.8%
<b>Total Referred Journeyman Workers</b>	<b>366</b>	<b>383,645</b>	<b>\$ 14,499,847</b>	<b>3.4%</b>	<b>5.3%</b>	<b>4.9%</b>
Non-Referred Journeypersons	10,489	6,889,346	\$ 283,296,779	96.6%	94.7%	95.1%
<b>Total Journeypersons</b>	<b>10,855</b>	<b>7,272,992</b>	<b>\$ 297,796,626</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Total Workforce						
<b>Total Referred Workers ( J+A )</b>	<b>907</b>	<b>981,445</b>	<b>\$ 29,692,349</b>	<b>7.3%</b>	<b>11.8%</b>	<b>9.1%</b>
All Non-Referred Workers						
All Non-Referred Workers	11,574	7,336,661	\$ 295,729,127	92.7%	88.2%	90.9%
<b>Total Workforce</b>	<b>12,481</b>	<b>8,318,106</b>	<b>\$ 325,421,476</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Note: Because of the statistics method's distinction, the result of the worker count in this report is differ from other reports.

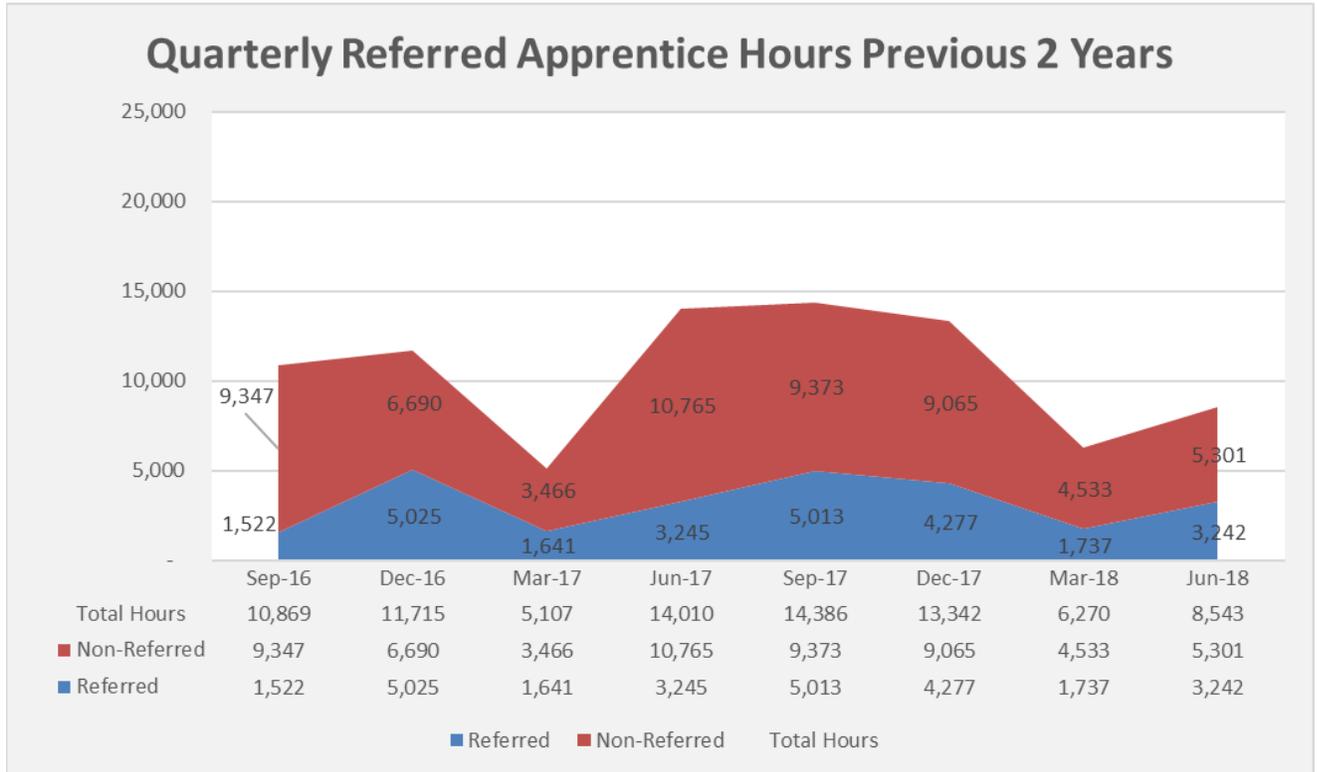
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through June 30, 2018									
Project	Total Craft Hours			Referred Hours			Referred Utilization %		
	Total Hours	Total Apprentice Hours	Total Journey Hours	Referred Apprentice Hours	Referred Journey Hours	Total Referred Hours	Referred Apprentice %	Referred Journey %	Total Referred %
WD-2551 - Calaveras Dam Rep	1,396,759	176,763	1,219,996	131,824	112,809	244,632	74.6%	9.2%	17.5%
WD-2596 - Hary Tracy Water	1,013,917	144,423	869,494	81,895	37,310	119,204	56.7%	4.3%	11.8%
WD-2581 - New Irvington Tunne	730,584	51,750	678,834	37,436	15,218	52,653	72.3%	2.2%	7.2%
WD-2531 - Bay Division Pipelin	583,318	32,391	550,927	27,949	26,451	54,400	86.3%	4.8%	9.3%
WD-2601 - Crystal Springs / S	489,176	48,722	440,454	41,550	27,188	68,739	85.3%	6.2%	14.1%
WD-2582 - Sunol Valley Water	462,447	68,616	393,832	27,121	8,367	35,488	39.5%	2.1%	7.7%
WD-2542 - Bay Division Pipelin	288,044	26,210	261,834	20,197	4,770	24,967	77.1%	1.8%	8.7%
CS-936 - Advanced Meter Infrac	227,027	79,373	147,654	4,405	20,110	24,515	5.5%	13.6%	10.8%
WD-2541 - Bay Division Pipelin	208,255	20,196	188,059	10,927	5,850	16,777	54.1%	3.1%	8.1%
WD-2539 - University Mound R	187,032	30,350	156,682	14,817	12,887	27,703	48.8%	8.2%	14.8%
WD-2627R - Sutro Reservoir R	154,545	20,639	133,906	17,701	6,603	24,304	85.8%	4.9%	15.7%
WD-2668 - Regional Groundwa	150,471	25,350	125,122	8,383	13,850	22,233	33.1%	11.1%	14.8%
HH-935C - San Joaquin Pipelin	144,012	17,263	126,749	14,185	8,693	22,877	82.2%	6.9%	15.9%
DB-116 - Tesla Treatment Facil	141,910	26,991	114,920	7,450	1,884	9,334	27.6%	1.6%	6.6%
WD-2729 - Fish Passage Facil	140,248	23,924	116,324	4,203	2,614	6,817	17.6%	2.2%	4.9%
WD-2629 - Seismic Upgrade o	134,433	21,590	112,842	16,950	4,064	21,014	78.5%	3.6%	15.6%
WD-2552 - Alameda Siphon No	129,485	20,720	108,765	16,749	3,356	20,105	80.8%	3.1%	15.5%
WD-2555 - Crystal Springs Pip	127,805	12,953	114,853	12,193	11,757	23,950	94.1%	10.2%	18.7%
WD-2498 - New Crystal Spring	117,860	17,612	100,248	319	291	610	1.8%	0.3%	0.5%
WD-2652 - Bioregional Habit	110,655	20,661	89,993	14,823	5,899	20,722	71.7%	6.6%	18.7%
WD-2548 - Lake Merced Pump	101,050	10,807	90,244	3,851	10,836	14,687	35.6%	12.0%	14.5%
HH-935B - San Joaquin Pipelin	100,492	9,304	91,188	5,797	1,923	7,719	62.3%	2.1%	7.7%
WD-2591 - Lower Crystal Sprin	98,656	8,685	89,970	6,917	4,086	11,003	79.6%	4.5%	11.2%
HH-935A - San Joaquin Pipelin	84,483	9,009	75,474	2,977	422	3,399	33.0%	0.6%	4.0%
WD-2513 - San Andreas Pipeli	83,503	9,311	74,192	8,522	513	9,035	91.5%	0.7%	10.8%
WD-2575 - San Antonio Backu	75,263	12,460	62,803	10,106	3,250	13,356	81.1%	5.2%	17.7%
WD-2504 - Stanford Heights Re	74,300	9,891	64,409	1,336	4,241	5,577	13.5%	6.6%	7.5%
WD-2501 - Alemany Pump Sta	74,085	7,625	66,460	3,275	1,175	4,450	43.0%	1.8%	6.0%
WD-2727 - Peninsula Pipeline	69,772	11,858	57,914	8,229	5,687	13,916	69.4%	9.8%	19.9%
WD-2543 - North University Mo	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2621R - San Francisco Gr	52,286	6,225	46,061	1,495	186	1,681	24.0%	0.4%	3.2%
WD-2573 - Pulgas Balancing R	50,367	7,817	42,550	1,458	1,282	2,740	18.6%	3.0%	5.4%
WD-2568 - BDPL Nos. 3&4 Cr	47,910	4,538	43,373	2,020	185	2,205	44.5%	0.4%	4.6%
WD-2641R - Habitat Reserve P	44,018	9,222	34,796	4,946	1,360	6,306	53.6%	3.9%	14.3%
WD-2564 - Hary Tracy Water	43,049	2,089	40,961	1,329	211	1,540	63.6%	0.5%	3.6%
WD-2798 - San Francisco Wes	36,407	7,155	29,253	1,444	2,198	3,642	20.2%	7.5%	10.0%
WD-2654R - Peninsula Vegeta	30,464	1,718	28,746	1,021	2,648	3,669	59.4%	9.2%	12.0%
WD-2469 - Forest Knolls Pump	26,553	2,907	23,646	1,961	52	2,013	67.5%	0.2%	7.6%
WD-2666 - Bioregional Habit	23,492	1,843	21,649	906	2,039	2,945	49.2%	9.4%	12.5%
WD-2623 - Harding Park Recyc	22,727	1,645	21,082	1,280	3,659	4,938	77.8%	17.4%	21.7%
WD-2651R - Peninsula 2011 W	22,569	3,135	19,435	2,372	3,551	5,923	75.7%	18.3%	26.2%
WD-2529 - Noe Valley Transm	22,511	1,133	21,378	1,133	263	1,396	100.0%	1.2%	6.2%
WD-2665 - Bay Division Pipelin	21,967	1,909	20,059	1,848	1,135	2,983	96.8%	5.7%	13.6%
WD-2556 - Baden and San Pee	19,939	2,738	17,201	2,069	98	2,167	75.6%	0.6%	10.9%
WD-2622 - San Francisco Gro	17,782	2,092	15,690	1,286	1,596	2,882	61.5%	10.2%	16.2%
WD-2566 - San Antonio Pump	14,916	1,798	13,119	931	-	931	51.8%	0.0%	6.2%
HH-914R - Roselle Crossover I	12,859	1,943	10,917	256	32	288	13.2%	0.3%	2.2%
HH-953 - Tesla Portal Protecti	11,512	3,255	8,257	3,255	865	4,120	100.0%	10.5%	35.8%
WD-2511 - Standby Power Fac	11,275	626	10,649	-	4	4	0.0%	0.0%	0.0%
WD-2640 - Bioregional Habit	10,621	1,615	9,006	1,407	75	1,482	87.1%	0.8%	13.9%
WD-2776 - San Francisco Wes	7,819	608	7,211	351	3	354	57.8%	0.0%	4.5%
WD-2809 - San Francisco Gro	6,629	258	6,371	107	-	107	41.4%	0.0%	1.6%
WD-2600 - Regional Groundwa	6,088	296	5,792	296	-	296	100.0%	0.0%	4.9%
WD-2589 - Supervisory Control	1,498	115	1,383	-	-	-	0.0%	0.0%	0.0%
<b>Total WSIP PLA</b>	<b>8,318,106</b>	<b>1,045,114</b>	<b>7,272,992</b>	<b>597,799</b>	<b>383,645</b>	<b>981,445</b>	<b>57.2%</b>	<b>5.3%</b>	<b>11.8%</b>

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The following chart summarizes *Referred and Non-referred Apprentices Quarterly Hours Earned* on all WSIP PLA-covered projects over the past eight quarters. As the WSIP PLA program continues to near completion there are fewer opportunities to refer workers to the projects and less hours worked overall. With 3,242 referred hours during the quarter, referred apprentices represented 38% of the apprentice hours this quarter.



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**Substance Abuse Prevention**

The WSIP PLA requires pre-employment alcohol and drug testing for all covered employees. The policy also allows testing where the contractor has reasonable cause to believe that the employee has used drugs or alcohol, and mandates testing where a contractor concludes that an employee was under the influence of drugs or alcohol at the time of an accident. The SFPUC has extended the WSIP PLA substance abuse prevention policy to all contractor employees working on a job site.

**14,528** pre-employment tests have been administered as of June 30, 2018 to people who were cleared to work. 195 people did not pass pre-employment screens and consequently were prevented from working until the results could be confirmed through lab tests. Strict regulations and high compliance by the contractors have led to a mere **1.32%** of failed screenings. These numbers have a direct correlation with the outstanding safety record of the entire WSIP Enterprise. The chart is on the next page.

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<b>WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary</b>	
Tests Administered to Individuals Cleared to Work Through 6/30/2018	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	1,862
WD-2601 - Crystal Springs / San Andreas Transmission System Upgrade	1,282
WD-2582 - Sunol Valley Water Treatment Plant and Treated Water Reservoir	704
WD-2581 - New Irvington Tunnel	651
WD-2531 - Bay Division Pipelines Reliability Upgrade - Bay Tunnel	581
WD-2548 - Lake Merced Pump Station Essential Upgrades	531
WD-2541 - Bay Division Pipeline No. 5 - East Bay Reaches	509
WD-2501 - Alemany Pump Station	375
DB-116 - Tesla Treatment Facility	374
HH-935C - San Joaquin Pipeline System - Eastern Segment & Other Facilities	335
WD-2539 - University Mound Reservoir North Basin Seismic Upgrades	319
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reaches	305
WD-2668 - Regional Groundwater Storage and Recovery	265
CS-936 - Advanced Meter Infrastructure	229
WD-2552 - Alameda Siphon No. 4 Project	229
HH-935B - San Joaquin Pipeline System - Western Segment	226
WD-2629 - Seismic Upgrade of Bay Division Pipeline Nos. 3&4 at the Hayward Fault	226
WD-2627R - Sutro Reservoir Rehabilitation and Seismic Upgrade	217
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunnel	212
WD-2504 - Stanford Heights Reservoir Seismic Retrofit and Improvement	199
HH-935A - San Joaquin Pipeline System - Crossovers	186
WD-2573 - Pulgas Balancing Reservoir Structural Rehabilitation and Roof Replacement	184
WD-2568 - BDPL Nos. 3&4 Crossover Facilities	180
WD-2513 - San Andreas Pipeline No.3 Installation Project	178
WD-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	153
WD-2575 - San Antonio Backup Pipeline	132
WD-2591 - Lower Crystal Springs Dam Improvements	125
WD-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2621R - San Francisco Groundwater Supply Well Stations	97
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2652 - Bioregional Habitat Restoration, San Antonio Creek	90
WD-2556 - Baden and San Pedro Valve Lot Improvements	86
HH-914R - Roselle Crossover Improvements	72
WD-2566 - San Antonio Pump Station Upgrades Project	70
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Skyline	63
WD-2727 - Peninsula Pipeline Seismic Upgrade	61
HH-953 - Tesla Portal Protection	59
WD-2543 - North University Mound System Upgrade	55
WD-2529 - Noe Valley Transmission Main - Phase II	47
WD-2665 - Bay Division Pipeline Reliability Upgrade Project - Bay Division Pipeline No. 5, Cordilleras Microtunnel	43
WD-2654R - Peninsula Vegetation Removal	34
WD-2511 - Standby Power Facilities, Various Locations	30
WD-2666 - Bioregional Habitat Restoration, Sheep Camp Creek	30
WD-2589 - Supervisory Control and Data Acquisition SCADA System Phase II	28
WD-2641R - Habitat Reserve Program, Homestead Pond, San Andreas Reservoir Wetlands, Adobe Gulch Grassland	23
WD-2600 - Regional Groundwater Storage and Recovery Project- Test Well Drilling	22
WD-2622 - San Francisco Groundwater Supply Pipeline	22
WD-2798 - San Francisco Westside Recycled Water Pipeline	20
WD-2776 - San Francisco Westside Recycled Water Treatment Facility at Oceanside Plant	16
WD-2687R - Auxiliary Water Supply System Pumping Station No. 2 Improvements	12
WD-2809 - San Francisco Groundwater Supply Phase 2	5
WD-2640 - Bioregional Habitat Restoration	-
<b>Total Cleared</b>	<b>14,528</b>

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**Legislative History of the WSIP PLA**

On April 8, 2003, the San Francisco Board of Supervisors adopted Resolution 223-03 urging the SFPUC to develop plans for a Project Labor Agreement covering the capital improvement program to rehabilitate, repair, and upgrade the Hetch Hetchy Water System.

On May 20, 2003 the San Francisco Board of Supervisors adopted Resolution 350-03 urging the SFPUC to include social justice components in the Project Labor Agreement covering the Hetch Hetchy Water System upgrade.

On May 11, 2006 the San Francisco Board of Supervisors amended the San Francisco Administrative Code to establish a PUC Small firm Advisory Committee to provide for the certification of small construction contractors located outside San Francisco and within the SFPUC service territory for work on SFPUC construction projects, including those covered by the WSIP PLA.

On March 28, 2006 the SFPUC adopted Resolution No. 06-0049 to authorize SFPUC staff to commence negotiations with the various craft labor unions for a project labor agreement covering the Water System Improvement Program. Resolution No. 06-0049 concluded that the governmental interests of the SFPUC were furthered by a project labor agreement as follows:

“There are numerous advantages in moving forward on the negotiation of a PLA, which include but are not limited to the following: creates framework for labor harmony; militates against construction delays; assures steady supply of qualified labor; provides employment, career, and local business opportunities; and, other benefits ...”

On March 26, 2007, the SFPUC approved the negotiated agreement, called the Water System Improvement Program Project Labor Agreement (the WSIP PLA). The WSIP PLA requires construction contractors to utilize workers dispatched by signatory unions, and prohibits the unions and contractors from participating in strikes, lockouts, or other disruptions to the work. The WSIP PLA provides a procedure for adjudicating conflicting jurisdictional claims between the unions, provides for uniform hours of work, overtime, shifts and holidays, encourages the recruitment and training of low-income residents of the SFPUC service territory, and requires substance abuse testing for all covered workers. The first implementation of the WSIP PLA was on contract WD-2504, the Stanford Heights Reservoir Seismic Retrofit and Improvement project which the SFPUC awarded to S.J. Amoroso Construction Co. Inc. on Jun. 26, 2007 in the amount of \$17,899,960.

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**Governance**

The parties to the WSIP PLA have established a four person Joint Administrative Committee that reviews the implementation of the agreement and the progress of the covered projects, and resolves problems and grievances that arise in connection with the agreement. The SFPUC administers the agreement under the direction of the Joint Administrative Committee.

The Joint Administrative Committee has established the Jobs Training Opportunities Program to promote the employment and training of San Francisco and SFPUC Service Territory residents on WSIP projects.

**Pre-Job Conferences and Jurisdictional Disputes**

Prior to the commencement of construction, representatives of the participating contractors and subcontractors, the Unions, and the SFPUC, are mandated to attend a pre-job conference held at the offices of the SFPUC or the offices of the local Building and Construction Trades Council. At the pre-job conference each contractor and subcontractor describes the scope of their work and assigns the work on the basis of traditional craft jurisdictional lines. When conflicting claims for work are submitted to a contractor, the WSIP PLA's Jurisdictional Dispute Resolution procedure is invoked to prevent delay or disruption in the work due to jurisdictional disputes.

**Web-Based Labor Compliance Program**

All SFPUC construction projects including those covered by the WSIP PLA utilize the City's web-based labor compliance program (Elation Systems, Inc.) which allows contractors to submit their weekly certified payroll reports electronically over the internet. Elation Systems' electronic certified payrolls are used to produce the employment data included in this report.