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WATER SYSTEM **IMPROVEMENT** PROGRAM

Water System Improvement Program Project Labor Agreement

Quarterly Report Quarter Ended September 30, 2016 (First Quarter FY 2016-2017)

San Francisco Public Utilities Commission
Water System Improvement Program Project Labor Agreement
Quarterly Report – First Quarter 2016-2017

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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-one (51) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.043 billion in original contract award through September 30, 2016.

Construction Activity Highlights – Program-to-Date

Contracting:

- Fifty-one (51) construction contracts with a value of \$2.043 billion in original contract award have been awarded subject to the WSIP PLA.

Employment:

- Since inception, 12,865 construction workers were employed for 7,595,840 hours and earned wages of \$294,782,971 on WSIP PLA-covered projects.
- 1,090 San Francisco residents worked 528,596 hours and earned \$19,641,934 on WSIP PLA-Covered Projects representing 6.9% of covered hours and 254 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. 5,500 residents of the Service Territory earned wages of \$118,239,268 and worked 3,115,051 hours, representing 41% of covered hours and 1,498 full-time equivalent worker years.
- 13,786 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of September 30, 2016. 179 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, 2016			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	12,865	7,595,840	\$ 294,782,971	3,652
San Francisco	1,090	528,596	\$ 19,641,934	254
SFPUC Service Territory	5,500	3,115,051	\$ 118,239,268	1,498
Outside	6,586	3,952,194	\$ 156,901,769	1,900

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Construction Activity Highlights – Quarter Ending September 30, 2016

Contracting:

- There were no contracts awarded this quarter.

Employment:

- 447 construction workers were employed for 73,546 hours and earned wages of \$2,873,503 on WSIP PLA-covered projects.
- 50 San Francisco residents worked 4,660 hours and earned wages of \$164,068 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, 197 residents of the Service Territory worked 37,604 hours and earned wages of \$1,417,453 on WSIP PLA-Covered projects.
- 174 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and only three individuals were prevented from working as the result of a positive test.

Summary of Craft Worker Employment

Region of Worker Residence	Three Months Ending September 30, 2016			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	447	73,546	\$ 2,873,503	35
San Francisco	50	4,660	\$ 164,068	2
SFPUC Service Territory	197	37,604	\$ 1,417,453	18
Outside	197	31,282	\$ 1,291,982	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 September 30, 2016					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
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	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 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
Total 51 Projects					\$ 2,043,234,600

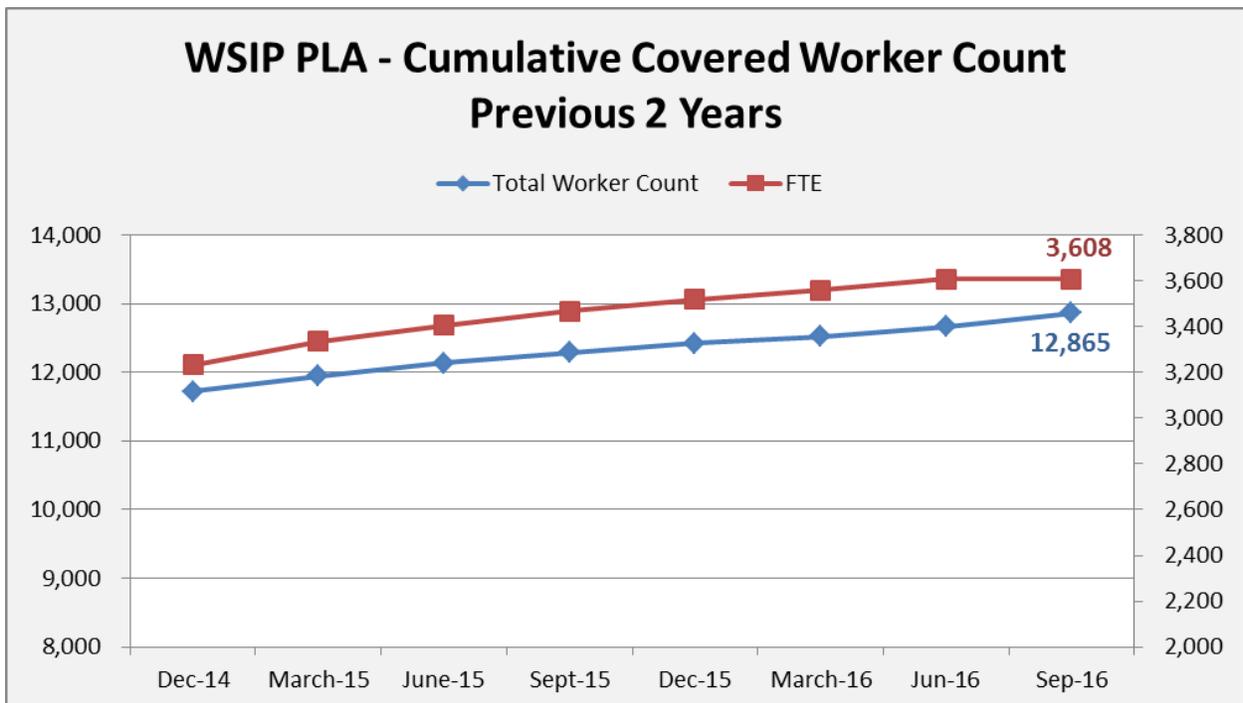
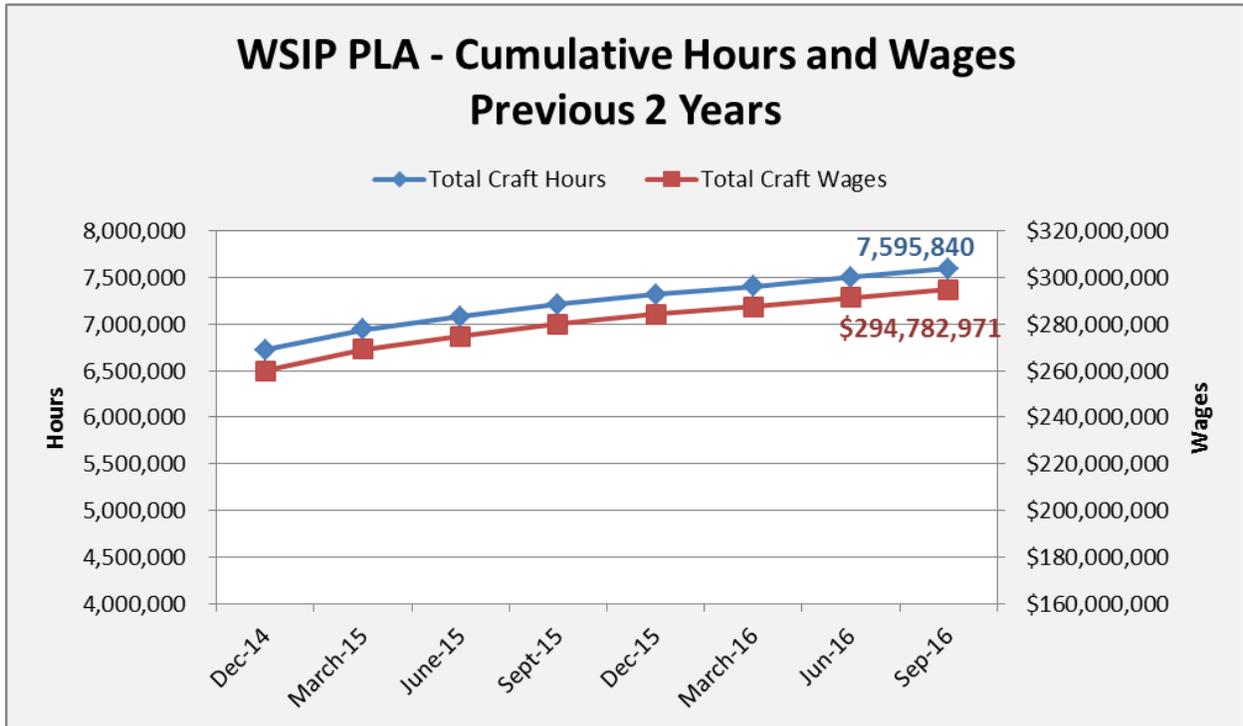
* indicates projects located in San Francisco

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Summary Charts

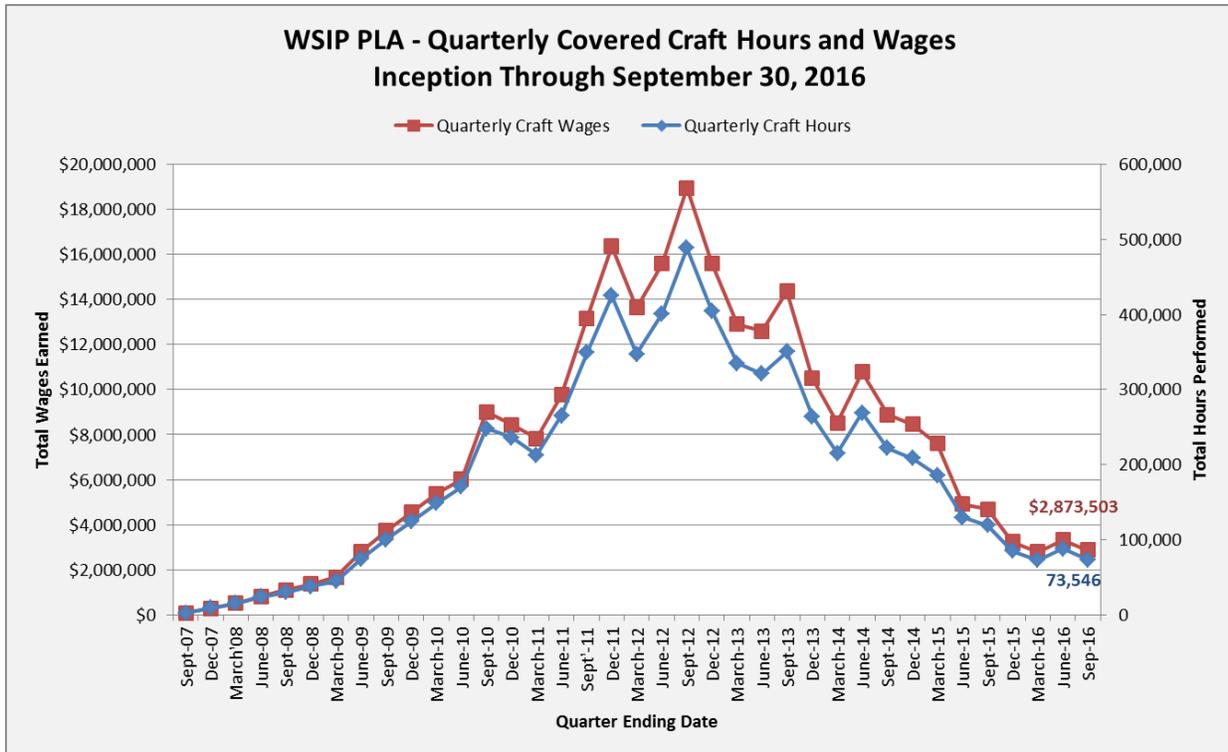
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending September 30, 2016; 12,865 workers on WSIP PLA-covered projects have achieved a cumulative total of 7,595,840 craft hours and \$294,782,971 in craft wages.

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

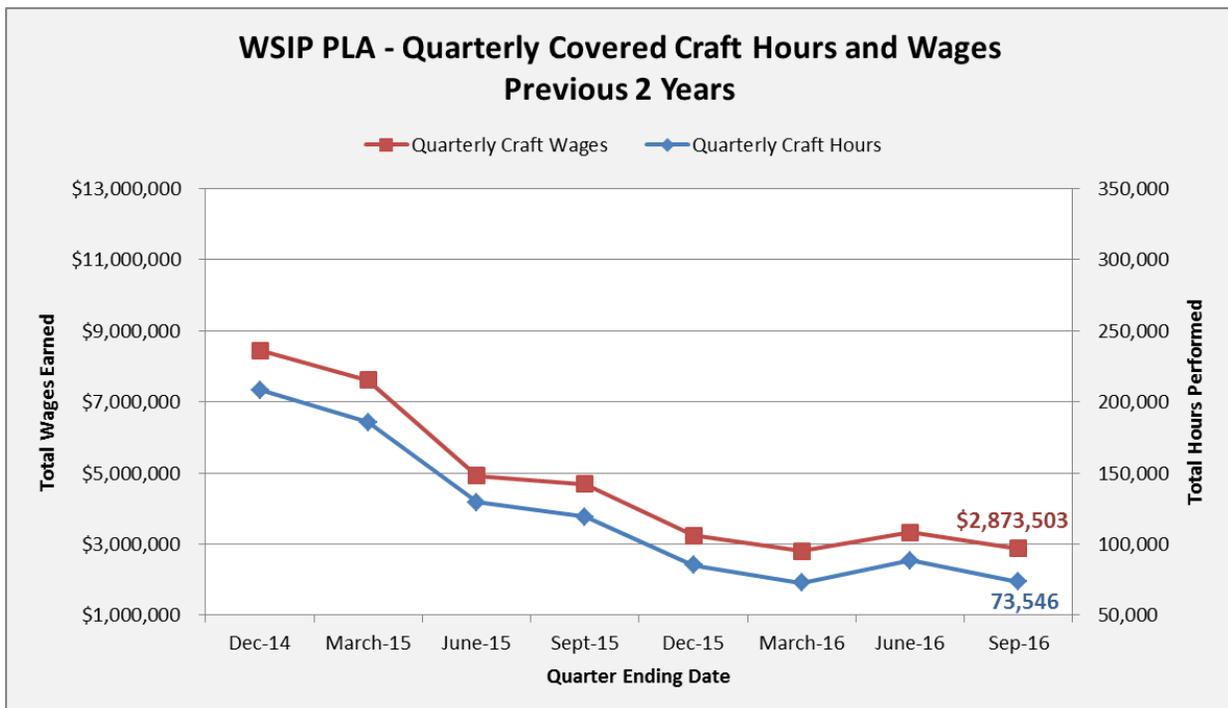


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



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, 2016, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 32 craft areas.

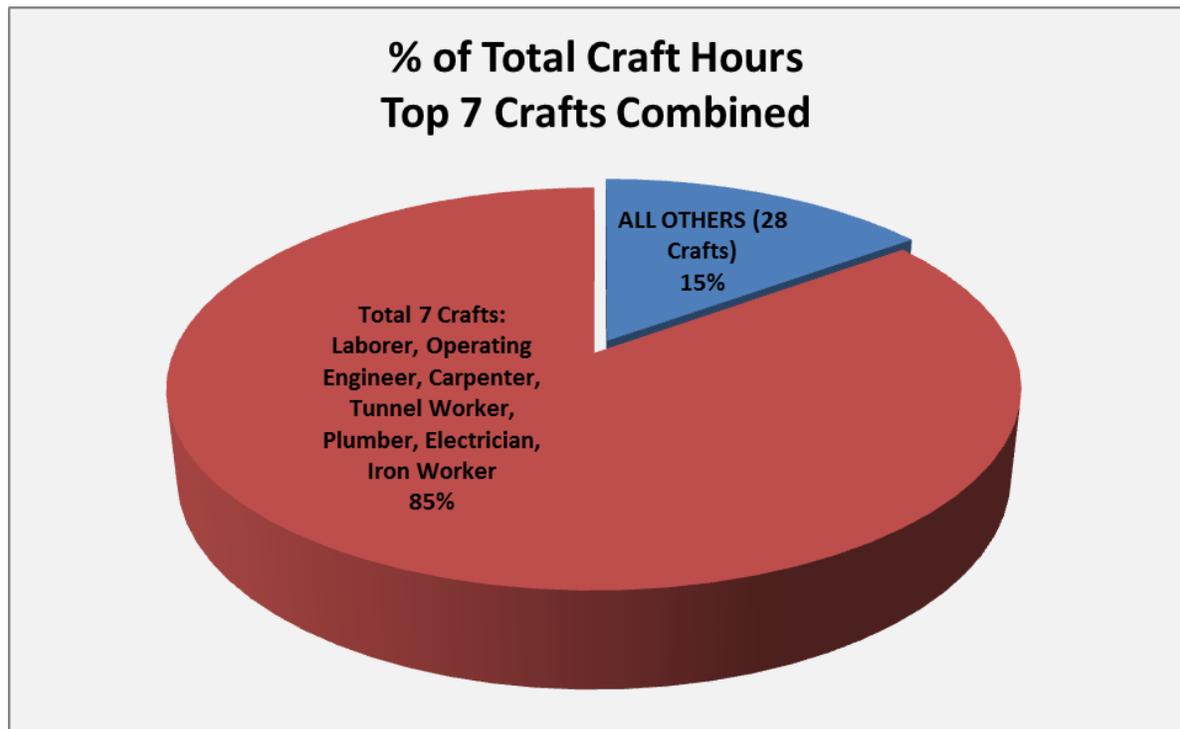
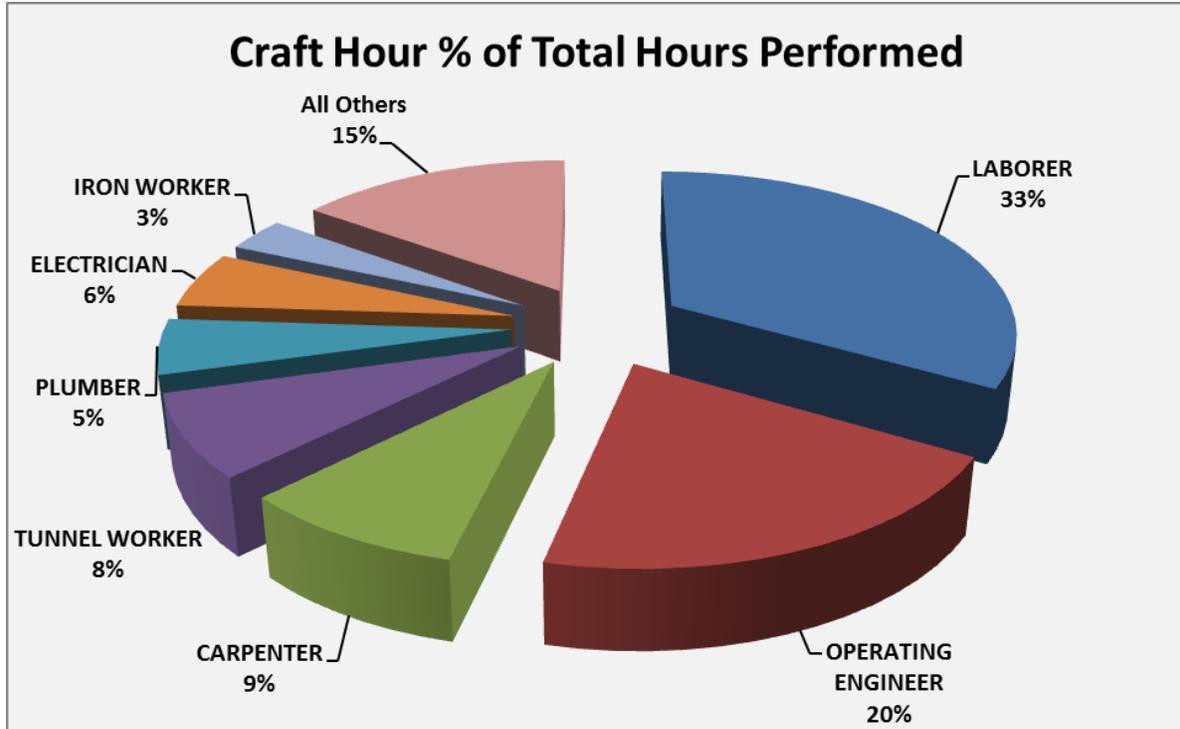
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed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

Sorted by Total Craft Hours

Cumulative Employment by Craft					
Inception Through September 30, 2016					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,523,710	\$ 76,169,536	33.2%	25.8%	1,213
OPERATING ENGINEER (Combined)	1,541,457	\$ 61,589,942	20.3%	20.9%	741
CARPENTER	675,895	\$ 28,038,567	8.9%	9.5%	325
TUNNEL WORKER (LABORER)	610,052	\$ 25,771,601	8.0%	8.7%	293
ELECTRICIAN	420,270	\$ 22,072,517	5.5%	7.5%	202
PLUMBER	411,371	\$ 19,143,140	5.4%	6.5%	198
IRON WORKER	252,374	\$ 8,507,510	3.3%	2.9%	121
Top 7 Sub-Total	6,435,129	\$ 241,292,814	84.7%	81.9%	3,094
PILE DRIVER (CARPENTER)	158,097	\$ 8,472,200	2.1%	2.9%	76
PAINTER	139,504	\$ 5,257,053	1.8%	1.8%	67
CEMENT MASON	118,862	\$ 4,127,310	1.6%	1.4%	57
BOILERMAKER-BLACKSMITH	117,888	\$ 6,196,921	1.6%	2.1%	57
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS	60,505	\$ 2,415,949	0.8%	0.8%	29
ROOFER	48,880	\$ 1,664,164	0.6%	0.6%	24
FIELD SURVEYOR	20,050	\$ 802,234	0.3%	0.3%	10
SHEET METAL WORKER	14,071	\$ 666,505	0.2%	0.2%	7
DRYWALL INSTALLER/LATHER (CARPENTER)	11,436	\$ 488,255	0.2%	0.2%	5
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	0.1%	0.1%	4
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	0.1%	0.1%	3
GLAZIER	4,111	\$ 178,448	0.1%	0.1%	2
PLASTERER	3,406	\$ 118,189	0.0%	0.0%	2
PLASTER TENDER	1,193	\$ 39,217	0.0%	0.0%	1
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMENT PAINTER (LABORER)	718	\$ 23,239	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROST INSULATOR	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
SHEET METAL WORKER (HVAC)	172	\$ 8,402	0.0%	0.0%	0
MARBLE FINISHER	40	\$ 1,342	0.0%	0.0%	0
TERRAZZO FINISHER	4	\$ 160	0.0%	0.0%	0
Remaining Apprenticeable Sub-Total	717,020	\$ 31,319,033	9.4%	10.6%	345
Total Non-Apprenticeable	443,691	\$ 22,171,124	5.8%	7.5%	213
Total WSIP-Covered by PLA	7,595,840	\$ 294,782,971	100%	100%	3,652

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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, 2016. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 70% of craft hours worked on PLA-covered projects.



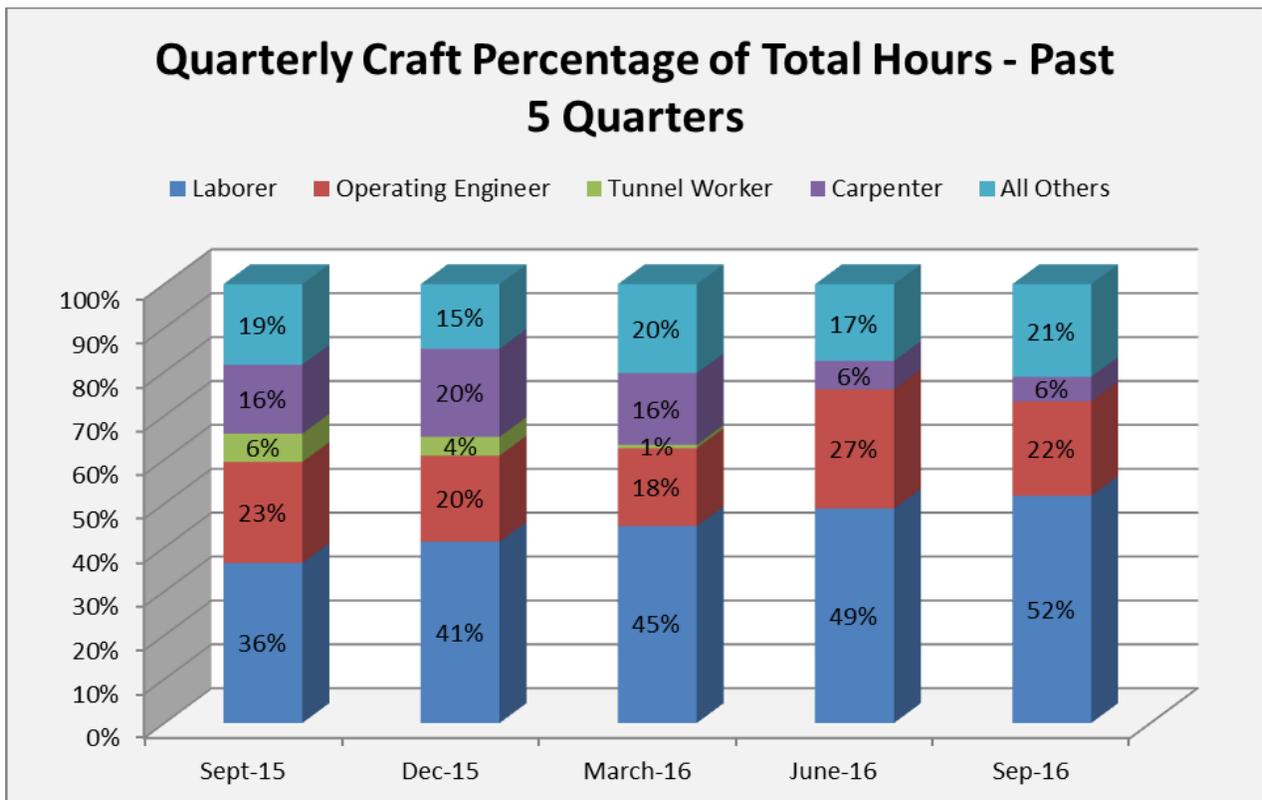
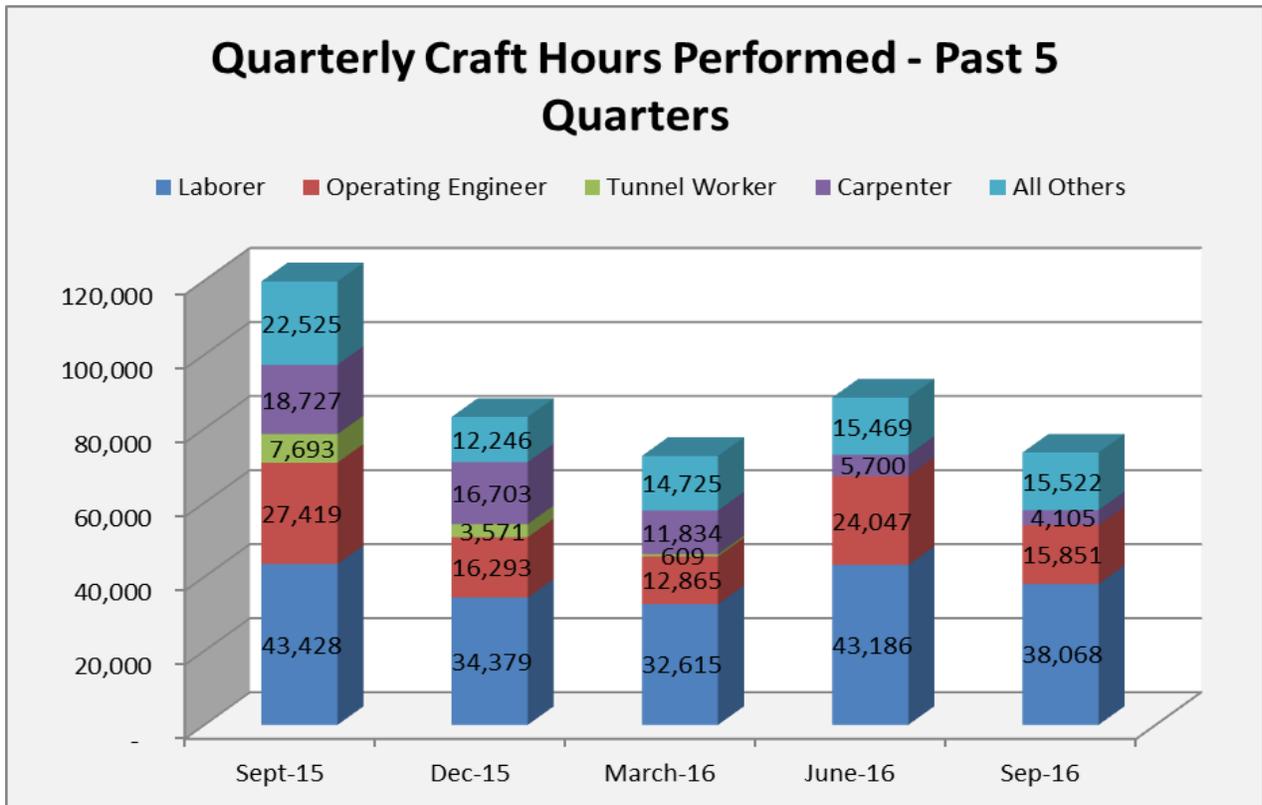
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 9-30-2016 Hours	Quarter Ending 9-30-2016 Wages
LABORER	2,523,710	\$ 76,169,536	38,068	\$ 1,264,464
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	972,466	\$ 40,086,733	7,513	\$ 337,371
OPERATING ENGINEER	514,876	\$ 19,235,404	8,339	\$ 349,781
OPERATING ENGINEER (SPECIAL SINGLE AND SECOND SHIFT)	2,637	\$ 97,521	-	\$ -
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY)	51,479	\$ 2,170,284	-	\$ -
OPERATING ENGINEER (COMBINED)	1,541,457	\$ 61,589,942	15,851	\$ 687,152
CARPENTER AND RELATED TRADES	675,895	\$ 28,038,567	4,105	\$ 192,602
TUNNEL WORKER (LABORER)	610,052	\$ 25,771,601	-	\$ -
ELECTRICIAN	420,270	\$ 22,072,517	5,744	\$ 324,646
PLUMBER	411,371	\$ 19,143,140	1,143	\$ 61,630
IRON WORKER	252,374	\$ 8,507,510	817	\$ 30,618
PILE DRIVER (CARPENTER)	158,097	\$ 8,472,200	-	\$ -
PAINTER	139,504	\$ 5,257,053	824	\$ 32,851
CEMENT MASON	118,862	\$ 4,127,310	736	\$ 26,809
BOILERMAKER-BLACKSMITH	117,888	\$ 6,196,921	90	\$ 4,784
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS AND	60,505	\$ 2,415,949	2,206	\$ 84,445
ROOFER	48,880	\$ 1,664,164	720	\$ 23,253
FIELD SURVEYOR	20,050	\$ 802,234	97	\$ 3,165
SHEET METAL WORKER	14,071	\$ 666,505	161	\$ 8,901
DRYWALL INSTALLER/LATHER (CARPENTER)	11,436	\$ 488,255	944	\$ 46,036
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	-	\$ -
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	-	\$ -
GLAZIER	4,111	\$ 178,448	22	\$ 819
PLASTERER	3,406	\$ 118,189	707	\$ 28,935
PLASTER TENDER	1,193	\$ 39,217	232	\$ 8,015
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	10	\$ 524
TILE SETTER	351	\$ 12,929	-	\$ -
TILE FINISHER	277	\$ 5,836	-	\$ -
METAL ROOFING SYSTEMS INSTALLER	201	\$ 16,061	-	\$ -
TERRAZZO WORKER	199	\$ 8,163	-	\$ -
SHEET METAL WORKER (HVAC)	172	\$ 8,402	-	\$ -
MARBLE FINISHER	40	\$ 1,342	-	\$ -
TERRAZZO FINISHER	4	\$ 160	-	\$ -
Total Apprenticable	7,152,149	\$ 272,611,847	72,475	\$ 2,829,648
Non-Apprenticeable				
TEAMSTER	122,790	\$ 5,491,657	777	\$ 28,037
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)	96,694	\$ 7,021,895	44	\$ 3,828
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK) (SPECI	94,650	\$ 4,391,975	251	\$ 11,990
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND	79,075	\$ 3,551,621	-	\$ -
ASBESTOS REMOVAL WORKER (LABORER)	17,057	\$ 431,301	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND	13,146	\$ 582,242	-	\$ -
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	-	\$ -
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	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER - H	282	\$ 12,787	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER (PAINTER)	265	\$ 8,680	-	\$ -
IRONWORKER (DB)	80	\$ 2,772	-	\$ -
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	\$ 291	-	\$ -
Total Non-Apprenticeable	443,691	\$ 22,171,124	1,071	\$ 43,855
Total Apprenticable	7,152,149	\$ 272,611,847	72,475	\$ 2,829,648
Total WSIP PLA	7,595,840	\$ 294,782,971	73,546	\$ 2,873,503

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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.

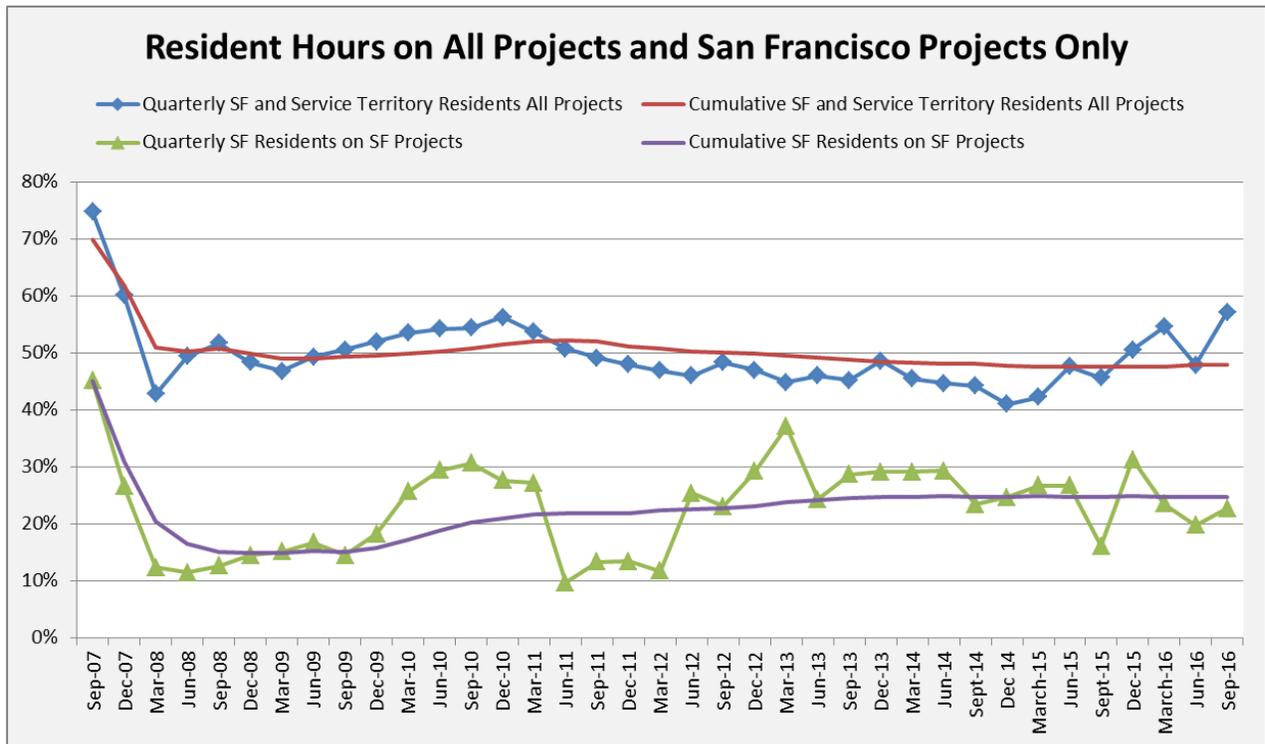


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Worker Residence on the WSIP PLA

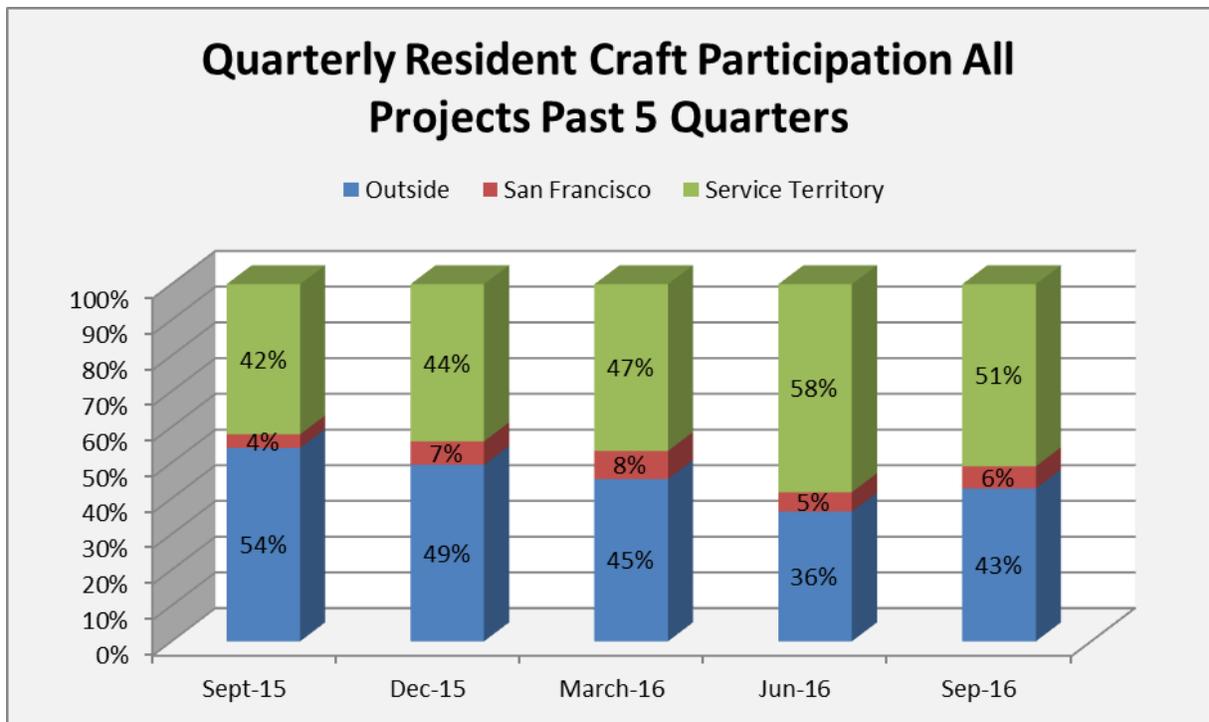
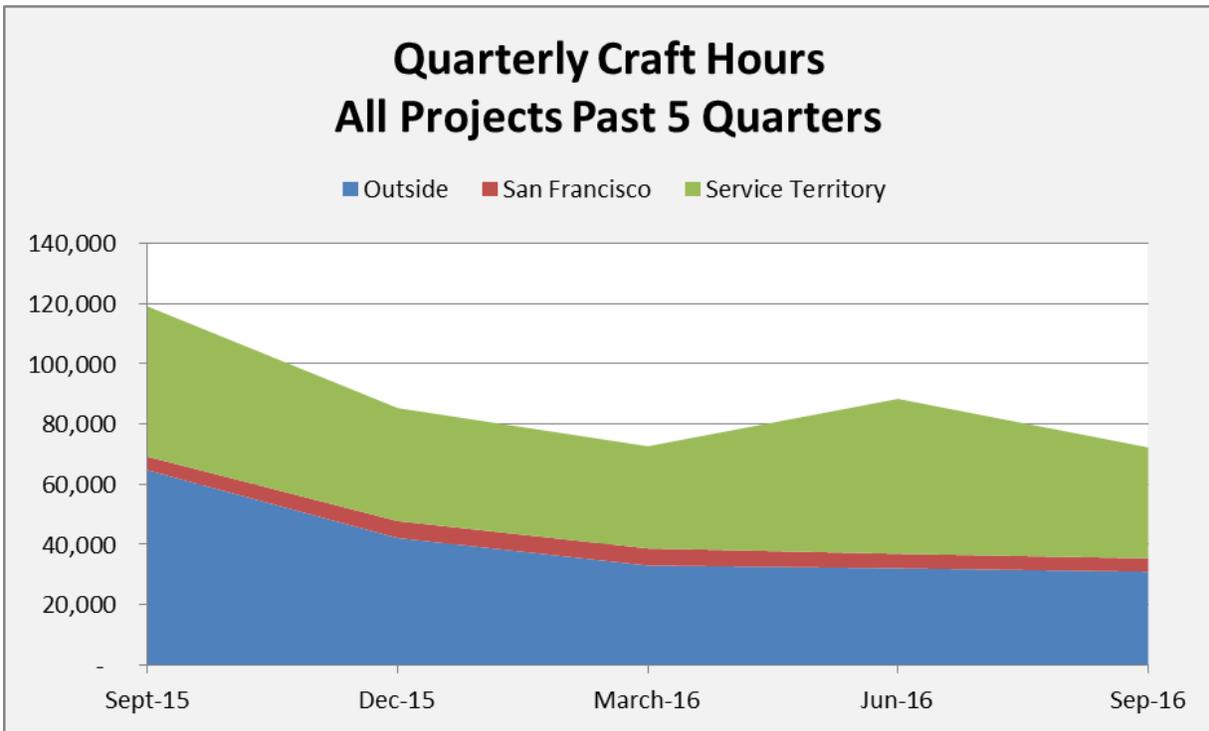
The Regional Service Territory covering seven counties is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

The following chart summarizes the employment percentages of residents of San Francisco and the Service Territory on WSIP PLA-covered projects through September 30, 2016.



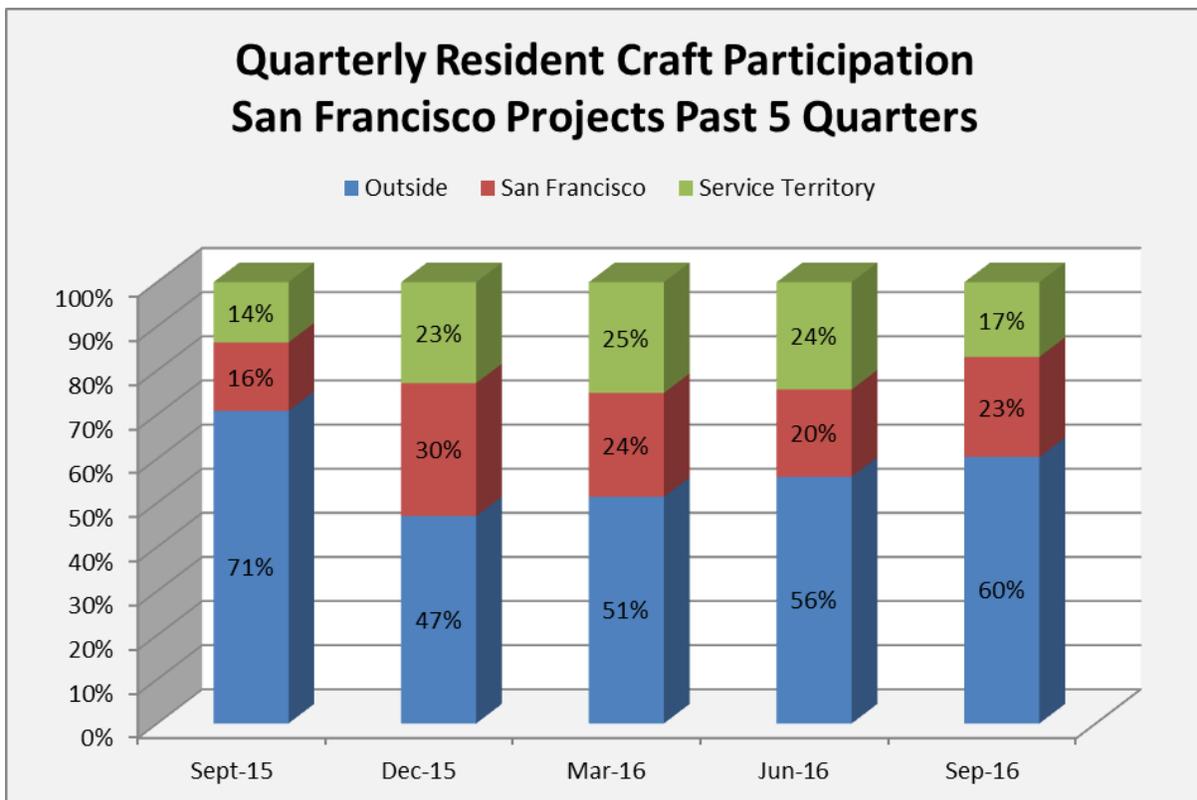
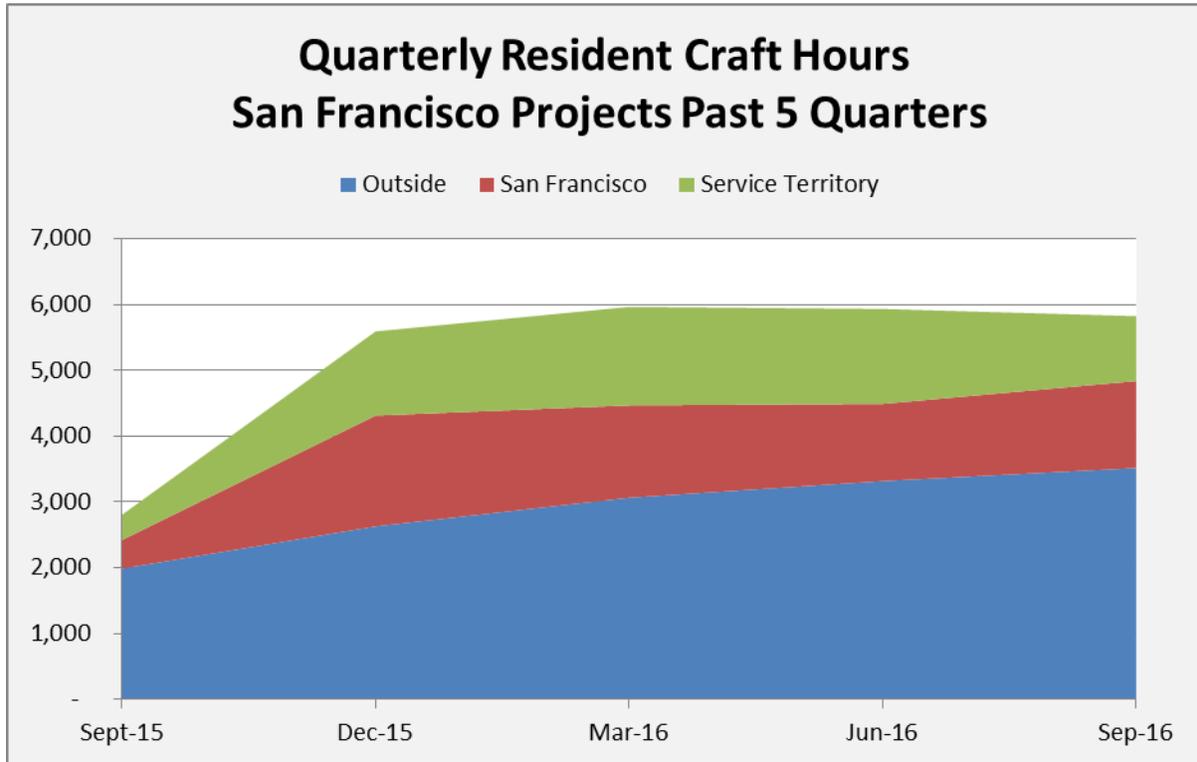
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Residence on ALL WSIP PLA Projects - Charted are the 51 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



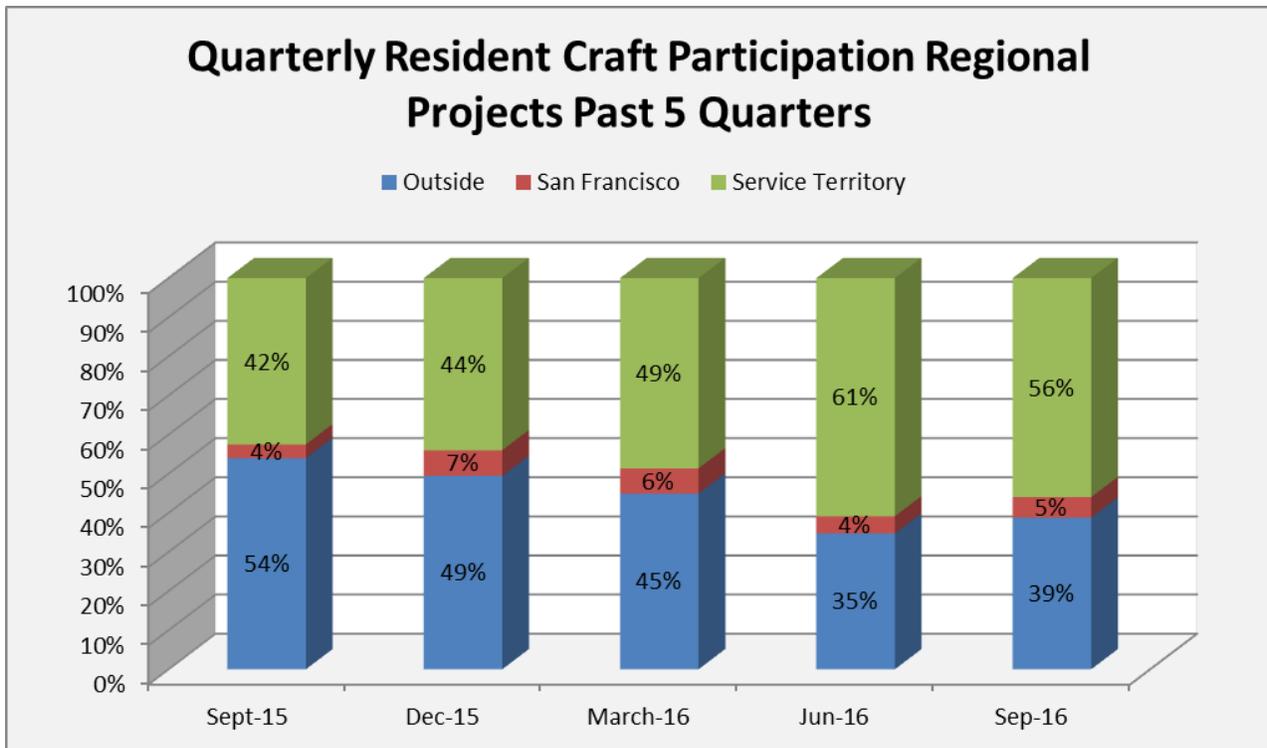
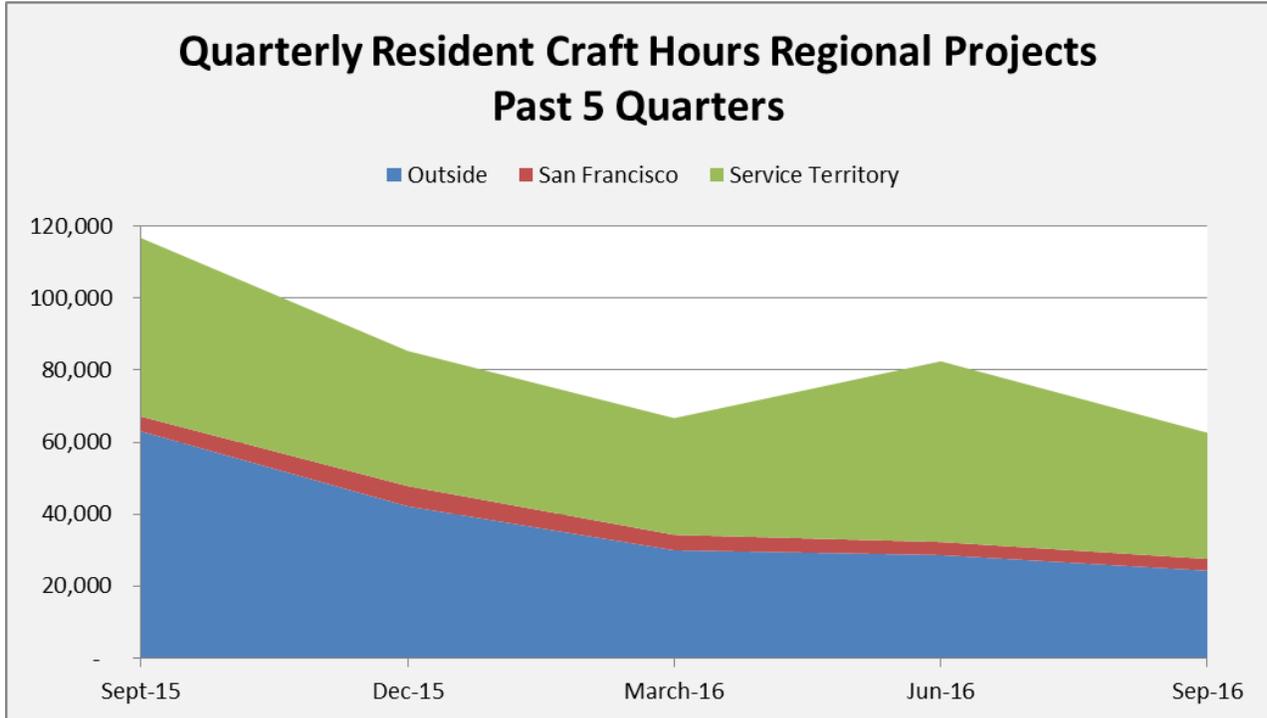
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Residence on San Francisco-located WSIP PLA Projects - Charted are the 13 projects covered by the WSIP PLA located within San Francisco only.



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



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Residence by County

Sorted by Total Craft Hours

WSIP-PLA Employment by Top 20 Counties of Residence					
Inception Through September 30, 2016					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,356,028	\$ 49,545,384	17.9%	2,597	652
Contra Costa	1,006,009	\$ 38,562,133	13.2%	1,744	484
San Mateo	759,990	\$ 30,029,273	10.0%	1,184	365
San Joaquin	700,125	\$ 25,776,031	9.2%	1,090	337
San Francisco	528,596	\$ 19,641,934	7.0%	1,090	254
Santa Clara	436,033	\$ 17,716,178	5.7%	1,174	210
Solano	377,377	\$ 14,778,921	5.0%	726	181
Stanislaus	332,687	\$ 11,986,306	4.4%	550	160
Sacramento	321,754	\$ 12,506,279	4.2%	528	155
Butte	200,420	\$ 7,880,398	2.6%	112	96
Sonoma	159,570	\$ 6,326,672	2.1%	296	77
Tuolumne	89,906	\$ 3,437,132	1.2%	90	43
Calaveras	89,770	\$ 3,925,510	1.2%	77	43
Placer	75,916	\$ 3,017,424	1.0%	120	36
El Dorado	73,701	\$ 2,992,141	1.0%	82	35
Yolo	67,238	\$ 2,593,170	0.9%	88	32
Los Angeles	66,842	\$ 2,853,022	0.9%	137	32
Clark	62,468	\$ 2,761,891	0.8%	66	30
Shasta	59,845	\$ 2,611,832	0.8%	49	29
Napa	55,181	\$ 2,426,062	0.7%	72	27
Top 20 Counties by Hours	6,819,456	\$ 261,367,693	89.8%	11,872	3,279
All Other Counties	776,384	\$ 33,415,278	10.2%	993	373
WSIP-PLA Total	7,595,840	\$ 294,782,971	100.0%	12,865	3,652

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San Francisco Residents by Zip Code

Sorted by Total Craft Hours

Employment by San Francisco Zip Code					
Inception Through September 30, 2016					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	90,846	\$ 3,167,563	17.0%	184	44
94124	83,158	\$ 3,092,751	15.6%	224	40
94110	77,380	\$ 2,617,520	14.5%	157	37
94116	63,104	\$ 3,068,835	11.8%	73	30
94134	42,058	\$ 1,280,436	7.9%	108	20
94122	28,453	\$ 1,252,672	5.3%	54	14
94121	24,387	\$ 963,964	4.6%	42	12
94103	24,025	\$ 738,458	4.5%	31	12
94127	19,203	\$ 680,954	3.6%	18	9
94102	8,604	\$ 383,152	1.6%	18	4
94132	8,483	\$ 333,470	1.6%	31	4
94118	8,331	\$ 408,224	1.6%	19	4
94117	7,957	\$ 200,923	1.5%	17	4
94131	7,656	\$ 289,291	1.4%	19	4
94107	7,618	\$ 283,975	1.4%	19	4
94133	5,273	\$ 187,454	1.0%	8	3
94114	4,835	\$ 187,416	0.9%	12	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	1,724	\$ 50,680	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
Total	528,596	\$ 19,641,934	100%	1,090	254
WSIP-PLA Total	7,595,840	\$ 294,782,971	-	12,865	3,652

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Residence by Craft

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through September 30, 2016							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
OPERATING ENGINEER (HEAVY AND HIGHWAY)	972,466	17,724	373,509	581,232	1.8%	38.4%	59.8%
CARPENTER AND RELATED TRADES	675,895	77,114	282,966	315,816	11.4%	41.9%	46.7%
TUNNEL WORKER (LABORER)	610,052	11,102	244,642	354,308	1.8%	40.1%	58.1%
OPERATING ENGINEER	514,876	45,346	187,607	281,924	8.8%	36.4%	54.8%
ELECTRICIAN	420,270	22,997	245,737	151,536	5.5%	58.5%	36.1%
PLUMBER	411,371	80,873	132,778	197,721	19.7%	32.3%	48.1%
IRON WORKER	252,374	19,609	94,224	138,542	7.8%	37.3%	54.9%
PILE DRIVER (CARPENTER)	158,097	6,526	42,618	108,953	4.1%	27.0%	68.9%
PAINTER	139,504	8,817	14,114	116,574	6.3%	10.1%	83.6%
CEMENT MASON	118,862	5,653	52,631	60,578	4.8%	44.3%	51.0%
BOILERMAKER-BLACKSMITH	117,888	48	22,886	94,953	0.0%	19.4%	80.6%
BUILDING/CONSTRUCTION INSPECTOR AND FI	60,505	3,939	10,538	46,028	6.5%	17.4%	76.1%
PILE DRIVER (OPERATING ENGINEER - HEAVY A	51,479	499	8,546	42,434	1.0%	16.6%	82.4%
ROOFER	48,880	2,747	27,103	19,031	5.6%	55.5%	38.9%
FIELD SURVEYOR	20,050	1,334	3,883	14,834	6.7%	19.4%	74.0%
SHEET METAL WORKER	14,071	584	8,910	4,577	4.2%	63.3%	32.5%
DRYWALL INSTALLER/LATHER (CARPENTER)	11,436	1,255	2,857	7,324	11.0%	25.0%	64.1%
BRICKLAYER, BLOCKLAYER	8,574	82	4,321	4,171	1.0%	50.4%	48.7%
ELECTRICAL UTILITY LINEMAN	6,797		211	6,586		3.1%	96.9%
GLAZIER	4,111	969	1,259	1,884	23.6%	30.6%	45.8%
PLASTERER	3,406	1,222	814	1,371	35.9%	23.9%	40.3%
OPERATING ENGINEER (SPECIAL SINGLE AND S	2,637	47	1,691	899	1.8%	64.1%	34.1%
PLASTER TENDER	1,193	818	213	163	68.5%	17.9%	13.6%
BRICK TENDER	827	287	19	521	34.7%	2.3%	63.0%
PARKING AND HIGHWAY IMPROVEMENT PAIN	718		384	334		53.5%	46.5%
ASBESTOS WORKER, HEAT AND FROST INSULA	507		197	310		38.9%	61.1%
CARPET, LINOLEUM, SOFT FLOOR LAYER	354	6	89	259	1.7%	25.1%	73.2%
TILE SETTER	351		344	7		98.0%	2.0%
TILE FINISHER	277		237	40		85.6%	14.4%
METAL ROOFING SYSTEMS INSTALLER	201			201			100.0%
TERRAZZO WORKER	199			199			100.0%
SHEET METAL WORKER (HVAC)	172		138	34		80.2%	19.8%
MARBLE FINISHER	40		40			100.0%	
TERRAZZO FINISHER	4		4			100.0%	
Total Apprenticeable	4,628,441	309,594	1,765,508	2,553,339	6.7%	38.1%	55.2%
LABORER	2,523,708	191,768	1,113,962	1,217,978	7.6%	44.1%	48.3%
Non-Apprenticeable							
TEAMSTER	122,790	9,403	68,017	45,370	7.7%	55.4%	37.0%
DRIVER (ON/OFF-HAULING TO/FROM CONSTR	96,694	16,349	64,534	15,811	16.9%	66.7%	16.4%
OPERATING ENGINEER (HEAVY AND HIGHWAY	94,650		40,142	54,508		42.4%	57.6%
TUNNEL/UNDERGROUND (OPERATING ENGINE	79,075	70	44,357	34,648	0.1%	56.1%	43.8%
ASBESTOS REMOVAL WORKER (LABORER)	17,057	887	2,256	13,914	5.2%	13.2%	81.6%
TUNNEL/UNDERGROUND (OPERATING ENGINE	13,146		3,850	9,296		29.3%	70.7%
WATER WELL DRILLER	12,313		7,529	4,784		61.1%	38.9%
LANDSCAPE MAINTENANCE LABORER	1,691	360	830	501	21.3%	49.1%	29.6%
TREE TRIMMER (HIGH VOLTAGE LINE CLEARAN	1,422	32	1,191	199	2.3%	83.8%	14.0%
TELECOMMUNICATIONS TECHNICIAN	1,160		1,088	72		93.8%	6.2%
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001		789	212		78.8%	21.2%
DREDGER OPERATING ENGINEER	831			831			100.0%
OPERATING ENGINEER (BUILDING CONSTRUCT	635	133	229	273	20.9%	36.1%	43.0%
SLURRY SEAL WORKER	592		321	271		54.3%	45.7%
STEEL ERECTOR AND FABRICATOR (OPERATING	282		282			100.0%	
PARKING AND HIGHWAY IMPROVEMENT PAIN	265		167	98		63.0%	37.0%
IRONWORKER (DB)	80			80			100.0%
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11			11			100.0%
Total Non-Apprenticeable	443,691	27,234	235,581	180,877	6.1%	53.1%	40.8%
Total WSIP PLA	7,595,840	528,596	3,115,051	3,952,194	7.0%	41.0%	52.0%

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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, 2016							
Project	Total Hours	San Francisco Hours	Service Territory Hours	Outside Hours	% San Francisco Hours	% SFPUC Service Territory Hours	% Outside Hours
WD-2596 - Harry Tracy Water Tre	1,012,776	63,395	372,000	577,381	6.3%	36.7%	57.0%
WD-2551 Calaveras Dam Replac	957,551	4,553	355,485	597,513	0.5%	37.1%	62.4%
WD-2581 - New Irvington Tunne	730,568	3,538	305,847	421,183	0.5%	41.9%	57.7%
WD-2531 - Bay Division Pipeline	574,410	18,400	329,192	226,819	3.2%	57.3%	39.5%
WD-2601 - Crystal Springs / San	488,511	25,322	191,992	271,197	5.2%	39.3%	55.5%
WD-2582 - Sunol Valley Water T	462,447	11,320	193,089	258,038	2.4%	41.8%	55.8%
WD-2542 - Bay Division Pipeline	288,044	2,888	132,445	152,711	1.0%	46.0%	53.0%
CS-936 - Advanced Meter Infr	227,027	72,108	84,621	70,298	31.8%	37.3%	31.0%
WD-2541 - Bay Division Pipeline	208,255	14,163	83,047	111,045	6.8%	39.9%	53.3%
WD-2539 - University Mound Re	187,032	50,004	44,748	92,280	26.7%	23.9%	49.3%
WD-2627R Sutro Reservoir Reha	154,365	49,225	39,318	65,822	31.9%	25.5%	42.6%
HH-935C - San Joaquin Pipeline	144,012	83	80,529	63,401	0.1%	55.9%	44.0%
DB-116 - Tesla Treatment Facilit	141,910	2,062	95,072	44,776	1.5%	67.0%	31.6%
WD-2629 Seismic Upgrade of Ba	135,960	567	55,316	80,078	0.4%	40.7%	58.9%
WD-2552 - Alameda Siphon No.	129,485	1,450	57,593	70,442	1.1%	44.5%	54.4%
WD-2555 - Crystal Springs Pipeli	127,805	34,923	35,391	57,491	27.3%	27.7%	45.0%
WD-2498 - New Crystal Springs f	117,860	6,825	61,076	49,960	5.8%	51.8%	42.4%
WD-2652 Bioregional Habitat Re	110,411	2,810	43,982	63,619	2.4%	39.8%	57.6%
WD-2668 Regional Groundwater	102,207	16,264	51,167	34,777	16.0%	50.1%	34.0%
WD-2548 - Lake Merced Pump S	101,050	23,185	27,211	50,655	22.9%	26.9%	50.1%
HH-935B - San Joaquin Pipeline	100,492	426	42,719	57,347	0.4%	42.5%	57.1%
WD-2591 - Lower Crystal Springs	98,656	5,022	57,594	36,040	5.1%	58.4%	36.5%
HH-935A - San Joaquin Pipeline	84,483	158	45,744	38,581	0.2%	54.1%	45.7%
WD-2513 - San Andreas Pipeline	83,503	6,294	27,850	49,359	7.5%	33.4%	59.1%
WD-2575 San Antonio Backup Pi	75,263	9,125	31,720	34,418	12.1%	42.1%	45.7%
WD-2504 - Stanford Heights Res	74,300	11,120	19,865	43,315	15.0%	26.7%	58.3%
WD-2501 - Alemany Pump Statio	74,085	7,565	28,838	37,682	10.2%	38.9%	50.9%
WD-2727 Peninsula Pipeline Se	69,772	13,623	22,624	33,526	19.5%	32.4%	48.1%
WD-2543 - North University Mo	53,265	10,250	18,190	24,826	19.2%	34.1%	46.6%
WD-2573 - Pulgas Balancing Res	50,367	5,166	24,787	20,415	10.3%	49.2%	40.5%
WD-2568 - BDPL Nos. 3&4 Crosse	47,910	4,908	14,647	28,355	10.2%	30.6%	59.2%
WD-2641R Habitat Reserve Prog	44,018	7,286	11,135	25,597	16.6%	25.3%	58.2%
WD-2564 - Harry Tracy Water Tre	43,049	7,220	12,709	23,120	16.8%	29.5%	53.7%
WD-2621R San Francisco Ground	29,848	6,778	6,269	16,801	22.2%	21.0%	56.3%
WD-2469 - Forest Knolls Pump S	26,553	3,844	8,140	14,569	14.5%	30.7%	54.9%
WD-2666 Bioregional Habitat Re	23,492	46	7,032	16,414	0.2%	29.9%	69.9%
WD-2623 - Harding Park Recycle	22,727	4,530	13,464	4,734	19.9%	59.2%	20.8%
WD-2651R Peninsula 2011 Wate	22,569	557	11,609	10,403	2.5%	51.4%	46.1%
WD-2529 - Noe Valley Transmis	22,511	3,918	7,931	10,662	17.4%	35.2%	47.4%
WD-2665 Bay Division Pipeline l	21,967	341	6,958	14,668	1.6%	31.7%	66.8%
WD-2556 - Baden and San Pedro	19,939	4,570	10,634	4,735	22.9%	53.3%	23.7%
WD-2622 San Francisco Groundv	17,782	4,360	2,503	10,919	24.5%	14.1%	61.4%
WD-2566 - San Antonio Pump St	14,916	101	11,985	2,831	0.7%	80.3%	19.0%
HH-914R - Roselle Crossover Im	12,859	0	8,789	4,070	0.0%	68.3%	31.7%
HH-953 - Tesla Portal Protection	11,512	4,989	4,453	2,071	43.3%	38.7%	18.0%
WD-2511 - Standby Power Facili	11,275	136	6,599	4,541	1.2%	58.5%	40.3%
WD-2640 Bioregional Habitat Re	10,621	1,259	4,182	5,180	11.9%	39.4%	48.8%
WD-2729 Fish Passage Facilities	10,124	73	3,392	6,660	0.0%	33.5%	65.8%
WD-2654R Peninsula Vegetation	8,711	1,739	3,037	3,935	39.3%	34.9%	45.2%
WD-2600 Regional Groundwater	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2589 - Supervisory Control &	1,498	113	242	1,144	7.6%	16.1%	76.3%
Total WSIP PLA	7,595,840	528,596	3,115,051	3,952,194	7.0%	41.0%	52.0%

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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.

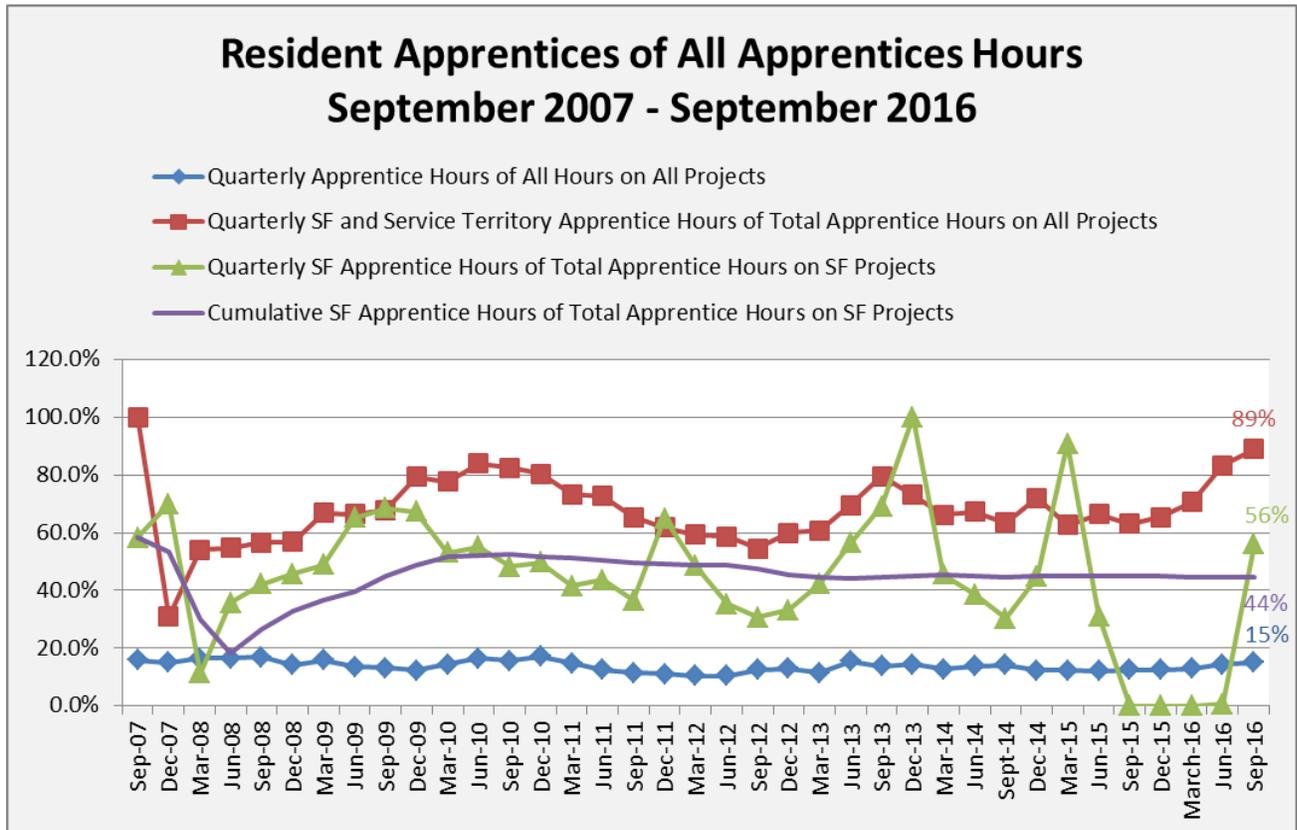
Through the end of the current quarter, 13.4% of craft hours in apprenticeable trades have been worked by apprentices. 17.1% of apprentice hours were worked by San Francisco residents and 54.1% were worked by residents of the Service Territory, or 71.2% combined.

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)	972,466	20,663	3,912	11,459	5,293	2.1%	0.4%	1.2%	18.9%	55.5%	25.6%
A - CARPENTER AND RELATED TRADES	675,895	106,402	27,657	48,930	29,815	15.7%	4.1%	7.2%	26.0%	46.0%	28.0%
A - TUNNEL WORKER (LABORER)	610,052	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - OPERATING ENGINEER	514,876	163,857	24,536	65,129	74,193	31.8%	4.8%	12.6%	15.0%	39.7%	45.3%
A - ELECTRICIAN	420,270	77,297	8,096	53,842	15,359	18.4%	1.9%	12.8%	10.5%	69.7%	19.9%
A - PLUMBER	411,371	113,748	32,748	56,062	24,937	27.7%	8.0%	13.6%	28.8%	49.3%	21.9%
A - IRON WORKER	252,374	54,426	12,179	22,827	19,421	21.6%	4.8%	9.0%	22.4%	41.9%	35.7%
A - PILE DRIVER (CARPENTER)	158,097	12,142	4,451	3,464	4,228	7.7%	2.8%	2.2%	36.7%	28.5%	34.8%
A - PAINTER	139,504	23,530	1,809	3,773	17,948	16.9%	1.3%	2.7%	7.7%	16.0%	76.3%
A - CEMENT MASON	118,862	5,414	3,608	655	1,152	4.6%	3.0%	0.6%	66.6%	12.1%	21.3%
A - BOILERMAKER-BLACKSMITH	117,888	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - BUILDING/CONSTRUCTION INSPECTOR AND	60,505	2,017	5	1,242	770	3.3%	0.0%	2.1%	0.2%	61.6%	38.2%
A - PILE DRIVER (OPERATING ENGINEER - HEAVY)	51,479	30	-	-	30	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%
A - ROOFER	48,880	12,103	1,291	5,982	4,831	24.8%	2.6%	12.2%	10.7%	49.4%	39.9%
A - FIELD SURVEYOR	20,050	555	-	58	497	2.8%	0.0%	0.3%	0.0%	10.5%	89.5%
A - SHEET METAL WORKER	14,071	1,594	16	919	659	11.3%	0.1%	6.5%	1.0%	57.6%	41.4%
A - DRYWALL INSTALLER/LATHER (CARPENTER)	11,436	441	60	251	130	3.9%	0.5%	2.2%	13.6%	56.9%	29.5%
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	4,111	515	353	20	142	12.5%	8.6%	0.5%	68.5%	3.9%	27.6%
A - PLASTERER	3,406	347	136	-	211	10.2%	4.0%	0.0%	39.2%	0.0%	60.8%
A - OPERATING ENGINEER (SPECIAL SINGLE AXLE)	2,637	1,162	-	1,047	115	44.1%	0.0%	39.7%	0.0%	90.1%	9.9%
A - PLASTER TENDER	1,193	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - BRICK TENDER	827	24	24	-	-	2.9%	2.9%	0.0%	100.0%	0.0%	0.0%
A - PARKING AND HIGHWAY IMPROVEMENT PERSONNEL	718	-	-	-	-	0.0%	0.0%	0.0%	0.0%	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 - TILE SETTER	354	27	-	23	4	7.6%	0.0%	6.5%	0.0%	85.2%	14.8%
A - CARPET, LINOLEUM, SOFT FLOOR LAYER	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 - SHEET METAL WORKER (HVAC)	172	8	-	8	-	4.7%	0.0%	4.7%	0.0%	100.0%	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	4,628,441	601,473	121,000	277,597	202,876	13.0%	2.6%	6.0%	20.1%	46.2%	33.7%
A - LABORER	2,523,708	354,455	42,341	239,618	72,497	14.0%	1.7%	9.5%	11.9%	67.6%	20.5%
A-Operating Engineer (COMBINED)	1,489,979	185,682	28,447	77,635	79,600	12.5%	1.9%	5.2%	15.3%	41.8%	42.9%
Total Apprenticeable	7,152,149	955,928	163,341	517,215	275,373	13.4%	2.3%	7.2%	17.1%	54.1%	28.8%
Total Non-Apprenticeable	443,691										
Total WSIP - Covered by PLA	7,595,840										

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For the three months ending September 30, 2016, 56% 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.



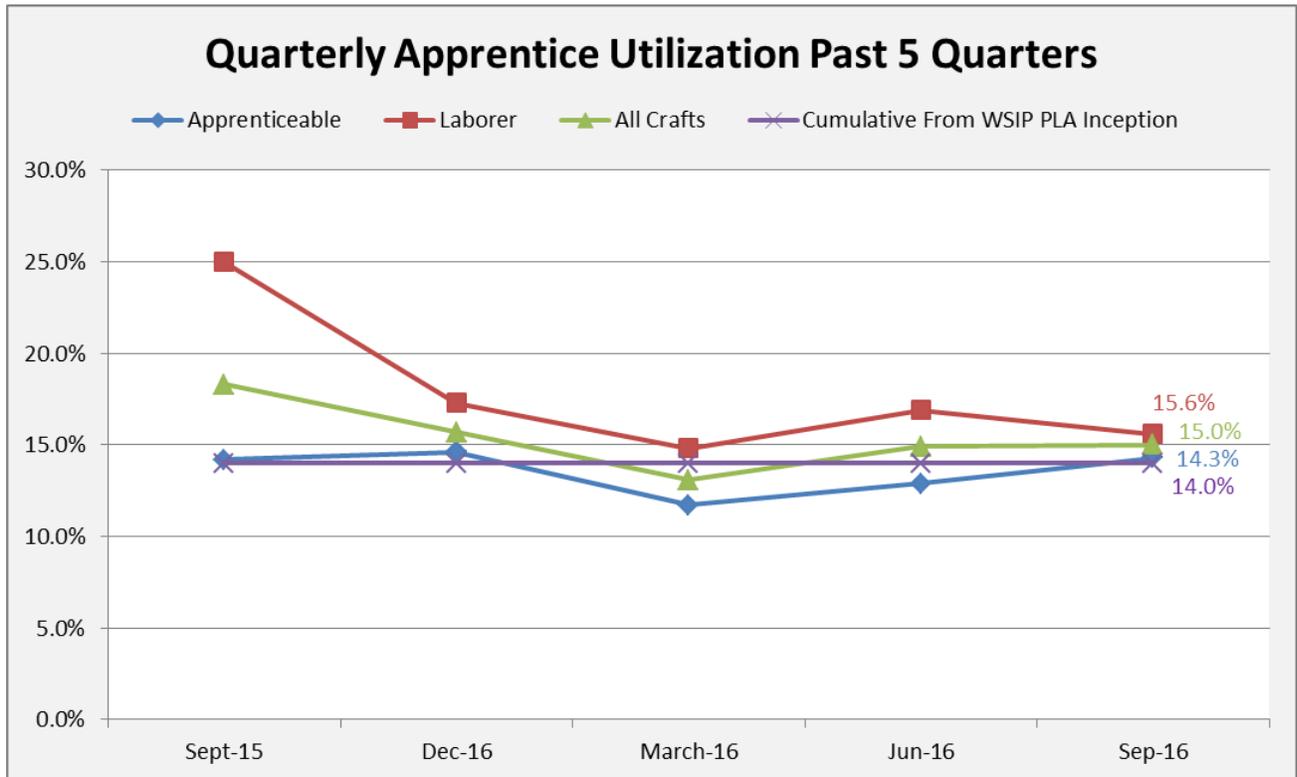
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 14%. This is slightly higher than the 13.4% mentioned in the *Apprentice 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, 2016											
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 Me	227,027	226,142		885	227,027	79,373		79,373	35.1%	0.0%	35.0%
HH-953 - Tesla Portal P	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2498 - New Crystal	117,860	51,381	54,937	11,543	62,923	12,361	5,252	17,612	24.1%	45.5%	28.0%
WD-2641R Habitat Rese	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
DB-116 - Tesla Treatme	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2652 Bioregional H	110,411	19,420	3,086	87,904	107,324	1,484	19,170	20,653	7.6%	21.8%	19.2%
WD-2727 Peninsula Sig	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2552 - Alameda Sig	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2575 San Antonio	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2640 Bioregional H	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2539 - University N	187,032	106,332	1,199	79,502	185,834	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2629 Seismic Upgr	135,960	74,264	1,729	59,968	134,232	8,356	13,525	21,881	11.3%	22.6%	16.3%
WD-2651R Peninsula 2	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2573 - Pulgas Balan	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
HH-914R - Roselle Cros	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
WD-2582 - Sunol Valley	462,447	293,884	13,009	155,554	449,438	49,266	19,350	68,616	16.8%	12.4%	15.3%
WD-2668 Regional Gro	102,207	64,595	257	37,355	101,950	10,979	4,524	15,503	17.0%	12.1%	15.2%
WD-2596 - Harry Tracy	1,012,776	673,586	40,826	298,364	971,950	108,222	35,995	144,217	16.1%	12.1%	14.8%
WD-2551 Calaveras Dam	957,551	552,459	27,909	377,183	929,643	63,031	70,138	133,169	11.4%	18.6%	14.3%
WD-2600 Regional Gro	6,088		4,027	2,061	2,061		296	296	0.0%	14.3%	14.3%
WD-2627R Sutro Reser	154,365	77,214	8,900	68,252	145,465	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2556 - Baden and S	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2504 - Stanford He	74,300	40,450		33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2531 - Bay Division	574,410	161,855	335,566	76,989	238,844	13,883	17,719	31,602	8.6%	23.0%	13.2%
WD-2513 - San Andreas	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
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-2621R San Francisco	29,848	16,703		13,144	29,848	2,004	1,758	3,762	12.0%	13.4%	12.6%
WD-2566 - San Antonic	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
HH-935C - San Joaquin	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2601 - Crystal Sprin	488,511	300,755	57,401	130,355	431,111	37,805	10,835	48,640	12.6%	8.3%	11.3%
WD-2469 - Forest Knoll	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2555 - Crystal Sprin	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	101,050	72,283	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
HH-935A - San Joaquin	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935B - San Joaquin	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2501 - Alemany Pu	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2541 - Bay Division	208,255	89,103	12,808	106,345	195,448	10,026	10,170	20,196	11.3%	9.6%	10.3%
WD-2542 - Bay Division	288,044	90,616	31,498	165,930	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2568 - BDPL Nos. 3	47,910	31,539	2,093	14,278	45,817	3,818	720	4,538	12.1%	5.0%	9.9%
WD-2654R Peninsula V	8,711	1,577		7,134	8,711	8	803	811	0.5%	11.2%	9.3%
WD-2591 - Lower Cryst	98,656	40,891	1,323	56,442	97,333	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2665 Bay Division	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2581 - New Irvingt	730,568	546,862	99,798	83,908	630,770	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2666 Bioregional H	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2589 - Supervisory	1,498	728		771	1,498	115		115	15.8%	0.0%	7.7%
WD-2623 - Harding Par	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2543 - North Unive	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2511 - Standby Pov	11,275	9,046		2,230	11,275	626		626	6.9%	0.0%	5.6%
WD-2529 - Noe Valley	22,511	6,021	2,067	14,423	20,444		1,133	1,133	0.0%	7.9%	5.5%
WD-2564 - Harry Tracy	43,049	22,612	80	20,358	42,969	2,089		2,089	9.2%	0.0%	4.9%
WD-2729 Fish Passage	10,124	3,117	251	6,757	9,874	223	142	364	7.1%	2.1%	3.7%
WSIP - Covered by PLA	7,595,840	4,305,292	767,008	2,523,540	6,828,832	601,475	354,455	955,928	14.0%	14.0%	14.0%

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The following chart indicates Quarterly Apprentice Utilization over the past five (5) quarters ending September 30, 2016. 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 1.4% , and the Laborer and Apprenticeable crafts combined (All Crafts) show an increase of about 0.1%. However, the overall cumulative percentage has remained the same.



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Jobs Training and Opportunities Program (JTOP)

As of September 30, 2016, the SFPUC and City staff has referred 532 Apprentices and 285 Journeypersons to WSIP PLA-covered Projects from our community-based partners in Job Training Programs and through the Labor Unions. These 817 individuals represent 10.4% of the total hours worked and 7.8% of the wages earned.*

WSIP-PLA Referred Workers By Job Training and Opportunities Program Inception Through September 30, 2016						
Referred Apprentice Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Apprentices	% Of Total Apprentice Hours	% Of Total Apprentice Wages
CityBuild	63	32,320	\$ 832,202	3.7%	3.4%	3.3%
CityBuild Academy	49	37,299	\$ 925,376	2.9%	3.9%	3.7%
Cypress Mandela Training Center, Inc.	35	57,739	\$ 1,380,933	2.1%	6.0%	5.5%
Helmets to Hardhats	1	3,339	\$ 80,910	0.1%	0.4%	0.3%
Job Corps	1	4,328	\$ 129,666	0.1%	0.5%	0.5%
JobTrain's Project Build	57	78,575	\$ 1,867,007	3.3%	8.2%	7.5%
Northern California Construction and Training, Inc.	7	7,256	\$ 158,831	0.5%	0.7%	0.6%
UNION	239	189,370	\$ 4,814,574	14.0%	19.8%	19.3%
San Joaquin County Office of Ed. YouthBuild	11	16,908	\$ 364,446	0.6%	1.8%	1.5%
SFPUC	63	55,708	\$ 1,451,213	3.8%	5.9%	5.9%
Sponser	2	3,362	\$ 122,412	0.0%	0.1%	0.0%
Total Referred Apprentice Workers	532	512,215	\$ 12,783,068	31.3%	53.6%	51.4%
Non-Referred Apprentices	1,169	443,716	\$ 12,099,148	68.7%	46.4%	48.6%
Total Apprentices	1,701	955,930	\$ 24,882,216	100.0%	100.0%	100.0%

Referred Journeyperson Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Journey Level Workers	% Of Total Journey Hours	% Of Total Journey Wages
CityBuild	71	49,910	\$ 2,157,513	0.6%	0.7%	0.7%
CityBuild Academy	9	8,116	\$ 274,313	0.0%	0.1%	0.1%
Cypress Mandela Training Center, Inc.	9	9,666	\$ 307,880	0.1%	0.2%	0.2%
HH	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	13	17,111	\$ 532,041	0.0%	0.3%	0.2%
NCCT	1	1,640	\$ 42,809	0.0%	0.0%	0.0%
Union	141	133,978	\$ 4,982,387	1.4%	2.0%	1.9%
San Joaquin County Office of Ed. YouthBuild	1	222	\$ 5,099	0.0%	0.0%	0.0%
SFPUC	34	47,347	\$ 1,647,640	0.3%	0.7%	0.6%
Sponser	2	4,095	\$ 150,696	0.0%	0.1%	0.1%
Total Referred Journeyperson Workers	285	275,251	\$ 10,197,008	2.8%	4.1%	3.8%
Non-Referred Journeypersons	9,957	6,364,660	\$ 259,703,747	97.2%	95.9%	96.2%
Total Journeypersons	10,242	6,639,910	\$ 269,900,755	100.0%	100.0%	100.0%

Total Workforce						
Total Referred Workers (J+A)	817	787,465	\$ 22,980,076	6.9%	10.4%	7.8%
All Non-Referred Workers						
All Non-Referred Workers	10,992	6,808,375	\$ 271,802,895	93.1%	89.6%	92.2%
Total Workforce	11,809	7,595,840	\$ 294,782,971	100.0%	100.0%	100.0%

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

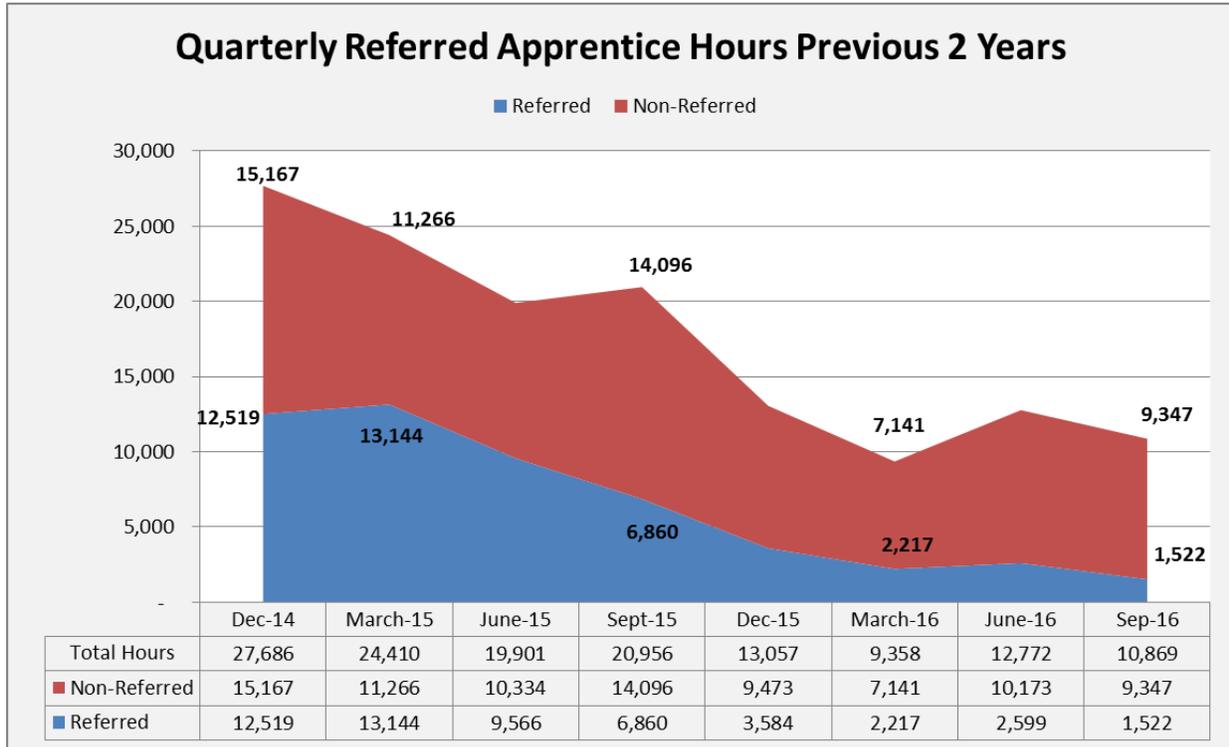
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through September 30, 2016									
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 %
HH-953 - Tesla Portal Protection	11,512	3,255	8,257	3,247	865	4,112	99.8%	10.5%	35.7%
WD-2651R Peninsula 2011 Watershe	22,569	3,135	19,435	2,372	3,551	5,923	75.7%	18.3%	26.2%
WD-2623 - Harding Park Recycled W	22,727	1,645	21,082	1,280	3,659	4,938	77.8%	17.4%	21.7%
WD-2652 Bioregional Habitat Restor	110,411	20,653	89,757	14,583	3,986	18,569	70.6%	4.4%	16.8%
HH-935C - San Joaquin Pipeline Syst	144,012	17,263	126,749	14,185	8,693	22,877	82.2%	6.9%	15.9%
WD-2555 - Crystal Springs Pipeline N	127,805	12,953	114,853	12,193	7,984	20,177	94.1%	7.0%	15.8%
WD-2552 - Alameda Siphon No. 4 Pr	129,485	20,720	108,765	16,749	3,356	20,105	80.8%	3.1%	15.5%
WD-2629 Seismic Upgrade of Bay Div	135,960	21,881	114,079	16,902	4,052	20,954	77.2%	3.6%	15.4%
WD-2539 - University Mound Reserv	187,032	30,350	156,682	14,817	12,647	27,463	48.8%	8.1%	14.7%
WD-2548 - Lake Merced Pump Statio	101,050	10,807	90,244	4,026	10,787	14,813	37.3%	12.0%	14.7%
WD-2627R Sutro Reservoir Rehabilit	154,365	20,639	133,726	16,028	6,080	22,107	77.7%	4.5%	14.3%
WD-2641R Habitat Reserve Program	44,018	9,222	34,796	4,844	1,352	6,196	52.5%	3.9%	14.1%
WD-2640 Bioregional Habitat Restor	10,621	1,615	9,006	1,391	75	1,466	86.1%	0.8%	13.8%
WD-2665 Bay Division Pipeline Relia	21,967	1,909	20,059	1,848	1,135	2,983	96.8%	5.7%	13.6%
WD-2601 - Crystal Springs / San And	488,511	48,640	439,871	38,300	27,188	65,488	78.7%	6.2%	13.4%
WD-2666 Bioregional Habitat Restor	23,492	1,843	21,649	778	2,039	2,817	42.2%	9.4%	12.0%
WD-2551 Calaveras Dam Replaceme	957,551	133,169	824,383	80,564	31,103	111,667	60.5%	3.8%	11.7%
WD-2727 Peninsula Pipeline Seismic	69,772	11,858	57,914	4,683	3,493	8,176	39.5%	6.0%	11.7%
WD-2668 Regional Groundwater Sto	102,207	15,503	86,704	2,793	8,959	11,752	18.0%	10.3%	11.5%
WD-2596 - Harry Tracy Water Treatm	1,012,776	144,217	868,560	79,394	36,209	115,603	55.1%	4.2%	11.4%
WD-2591 - Lower Crystal Springs Dar	98,656	8,685	89,970	6,917	4,086	11,003	79.6%	4.5%	11.2%
CS-936 - Advanced Meter Infrastruct	227,027	79,373	147,654	4,405	20,110	24,515	5.5%	13.6%	10.8%
WD-2513 - San Andreas Pipeline No.	83,503	9,311	74,192	8,522	513	9,035	91.5%	0.7%	10.8%
WD-2556 - Baden and San Pedro Val	19,939	2,738	17,201	2,057	98	2,155	75.1%	0.6%	10.8%
WD-2575 San Antonio Backup Pipeli	75,263	12,460	62,803	4,228	3,127	7,355	33.9%	5.0%	9.8%
WD-2622 San Francisco Groundwater	17,782	2,092	15,690	261	1,429	1,690	12.5%	9.1%	9.5%
WD-2531 - Bay Division Pipelines Re	574,410	31,602	542,808	27,311	26,382	53,693	86.4%	4.9%	9.3%
WD-2654R Peninsula Vegetation Re	8,711	811	7,901	-	769	769	0.0%	9.7%	8.8%
WD-2542 - Bay Division Pipeline No.	288,044	26,210	261,834	20,197	4,770	24,967	77.1%	1.8%	8.7%
HH-935B - San Joaquin Pipeline Syst	100,492	9,304	91,188	5,797	1,923	7,719	62.3%	2.1%	7.7%
WD-2582 - Sunol Valley Water Treat	462,447	68,616	393,832	27,121	8,277	35,398	39.5%	2.1%	7.7%
WD-2469 - Forest Knolls Pump Statio	26,553	2,907	23,646	1,961	32	1,993	67.5%	0.1%	7.5%
WD-2504 - Stanford Heights Reserv	74,300	9,891	64,409	1,336	4,241	5,577	13.5%	6.6%	7.5%
WD-2541 - Bay Division Pipeline No.	208,255	20,196	188,059	10,927	3,718	14,645	54.1%	2.0%	7.0%
DB-116 - Tesla Treatment Facility	141,910	26,991	114,920	7,450	1,884	9,334	27.6%	1.6%	6.6%
WD-2581 - New Irvington Tunnel	730,568	51,750	678,818	35,505	12,420	47,925	68.6%	1.8%	6.6%
WD-2529 - Noe Valley Transmission	22,511	1,133	21,378	1,133	263	1,396	100.0%	1.2%	6.2%
WD-2566 - San Antonio Pump Statio	14,916	1,798	13,119	931	-	931	51.8%	0.0%	6.2%
WD-2501 - Alemany Pump Station	74,085	7,625	66,460	3,275	1,175	4,450	43.0%	1.8%	6.0%
WD-2573 - Pulgas Balancing Reserv	50,367	7,817	42,550	1,458	1,282	2,740	18.6%	3.0%	5.4%
WD-2543 - North University Mound S	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2600 Regional Groundwater Sto	6,088	296	5,792	296	-	296	100.0%	0.0%	4.9%
HH-935A - San Joaquin Pipeline Syst	84,483	9,009	75,474	3,595	422	4,017	39.9%	0.6%	4.8%
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-2564 - Harry Tracy Water Treatm	43,049	2,089	40,961	1,329	183	1,512	63.6%	0.4%	3.5%
WD-2729 Fish Passage Facilities Witt	10,124	364	9,760	245	245	245	0.0%	2.5%	2.4%
HH-914R - Roselle Crossover Improv	12,859	1,943	10,917	256	32	288	13.2%	0.3%	2.2%
WD-2621R San Francisco Groundwat	29,848	3,762	26,086	90	77	167	2.4%	0.3%	0.6%
WD-2498 - New Crystal Springs Bypa	117,860	17,612	100,248	319	291	610	1.8%	0.3%	0.5%
WD-2511 - Standby Power Facilities,	11,275	626	10,649	-	4	4	0.0%	0.0%	0.0%
WD-2589 - Supervisory Control and U	1,498	115	1,383	-	-	-	0.0%	0.0%	0.0%
Total WSIP PLA	7,595,840	955,928	6,639,910	512,459	275,251	787,465	53.6%	4.1%	10.4%

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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 1,522 referred hours during the quarter, referred apprentices represented 14% of the Apprentice Hours this quarter.



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.

13,786 pre-employment tests have been administered as of September 30, 2016 to people who were cleared to work. 179 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 **1.3%** 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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WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary Tests Administered to Individuals Cleared to Work Through 09/30/2016	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 Calaveras Dam Replacement Project	1,351
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
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
WD-2668 Regional Groundwater Storage and Recovery	187
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-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
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
WD-2621R San Francisco Groundwater Supply Well Stations	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-2729 Fish Passage Facilities Within The Alameda Creek Watershed	64
WD-2651R Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Skyline Blvd. P	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-2640 Bioregional Habitat Restoration	-
Total Cleared	13,786

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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, 2016 (Second Quarter FY 2016-2017)

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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-two (52) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.064 billion in original contract award through December 31, 2016.

Construction Activity Highlights – Program-to-Date

Contracting:

- Fifty-two (52) construction contracts with a value of \$2.064 billion in original contract award have been awarded subject to the WSIP PLA.

Employment:

- Since inception, 13,030 construction workers were employed for 7,710,744 hours and earned wages of \$299,585,467 on WSIP PLA-covered projects.
- 1,108 San Francisco residents worked 535,332 hours and earned \$19,843,109 on WSIP PLA-covered projects representing 6.9% of covered hours and 257 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. 5,582 residents of the Regional Service Territory earned wages of \$120,415,620 and worked 3,169,726 hours, representing 41% of covered hours and 1,524 full-time equivalent worker years.
- 13,908 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of December 31, 2016. 180 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, 2016			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,030	7,710,744	\$ 299,585,467	3,707
San Francisco	1,108	535,332	\$ 19,843,109	257
SFPUC Service Territory	5,582	3,169,726	\$ 120,415,620	1,524
Outside	6,658	4,005,686	\$ 159,326,738	1,926

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Construction Activity Highlights – Quarter Ending December 31, 2016

Contracting:

- WD-2798 San Francisco Westside Recycled Water Pipeline was awarded to JMB Construction, Inc. on November 8, 2016, for a total contract amount of \$21,729,720. The work on this contract will primarily be the construction of a new recycled water supply pipeline.

Employment:

- 403 construction workers were employed for 77,559 hours and earned wages of \$3,167,583 on WSIP PLA-covered projects.
- 41 San Francisco residents worked 4,014 hours and earned wages of \$136,081 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, 197 residents of the Regional Service Territory worked 40,635 hours and earned wages of \$1,590,823 on WSIP PLA-covered projects.
- 123 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and only one individual was prevented from working as the result of a positive test.

Summary of Craft Worker Employment

Region of Worker Residence	Three Months Ending December 31, 2016			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	403	77,559	\$ 3,167,583	37
San Francisco	41	4,014	\$ 136,081	2
SFPUC Service Territory	197	40,635	\$ 1,590,823	20
Outside	169	32,910	\$ 1,440,679	16

*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, 2016					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
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	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 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
Total 52 Projects					\$ 2,064,964,320

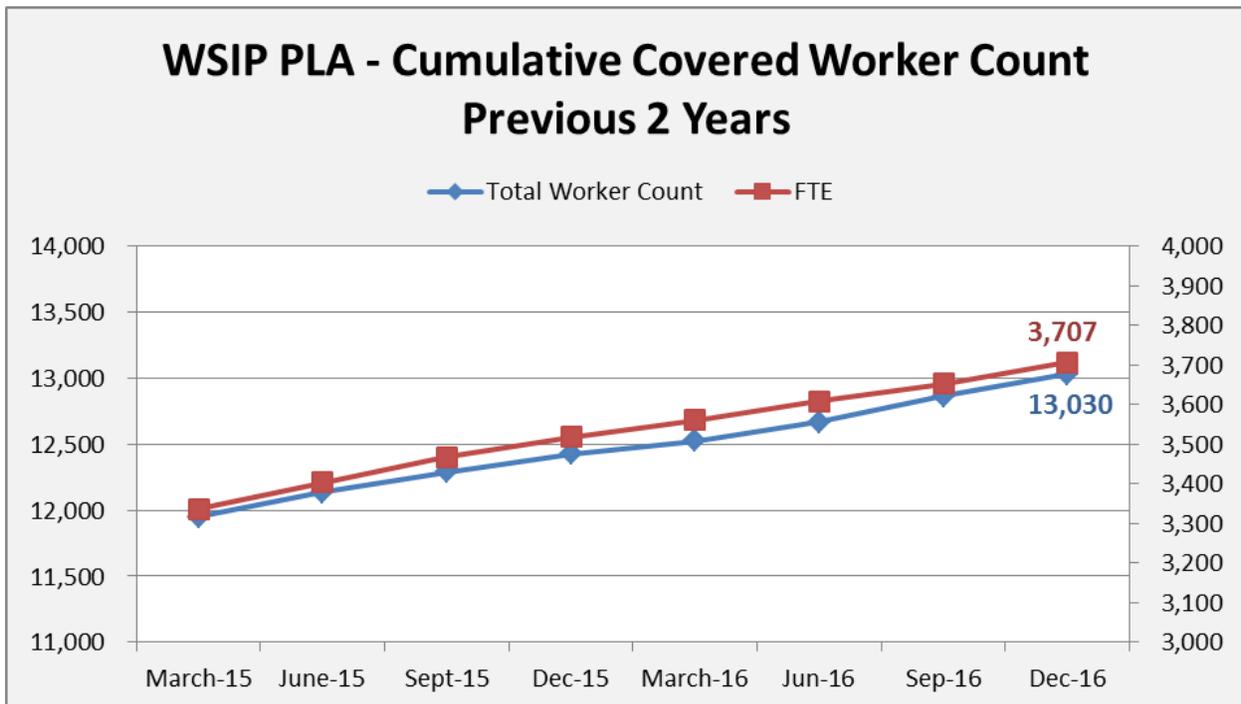
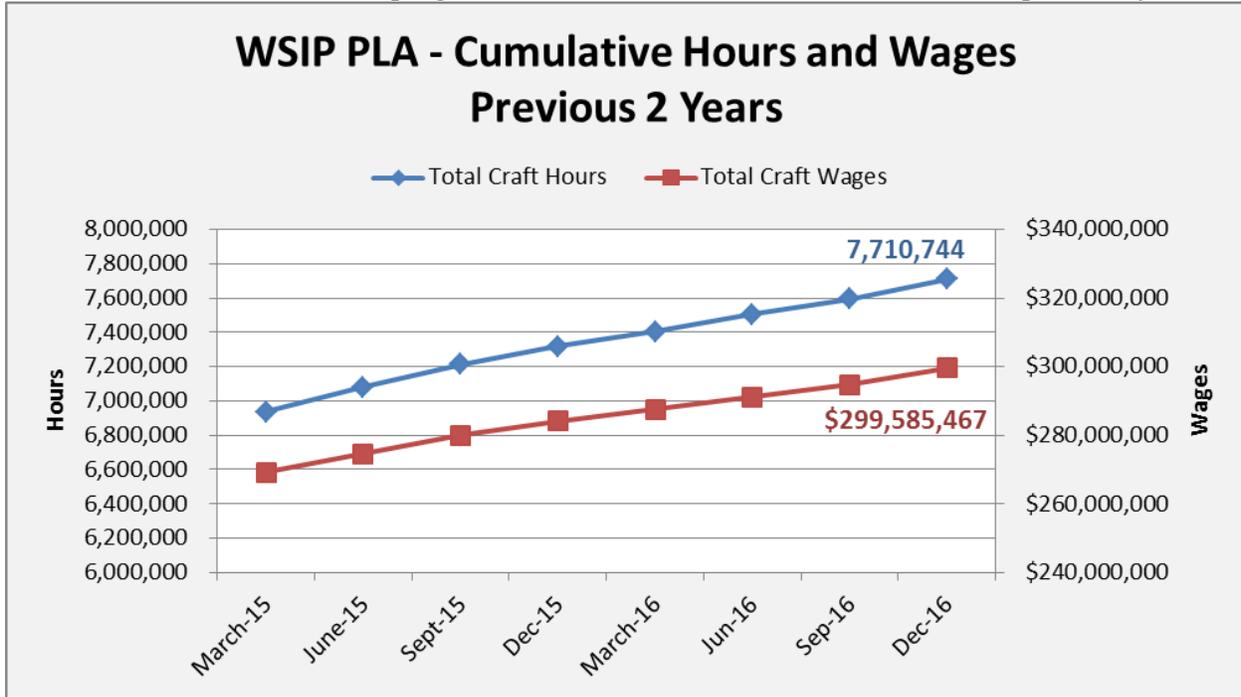
* Indicates projects located in San Francisco

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Summary Charts

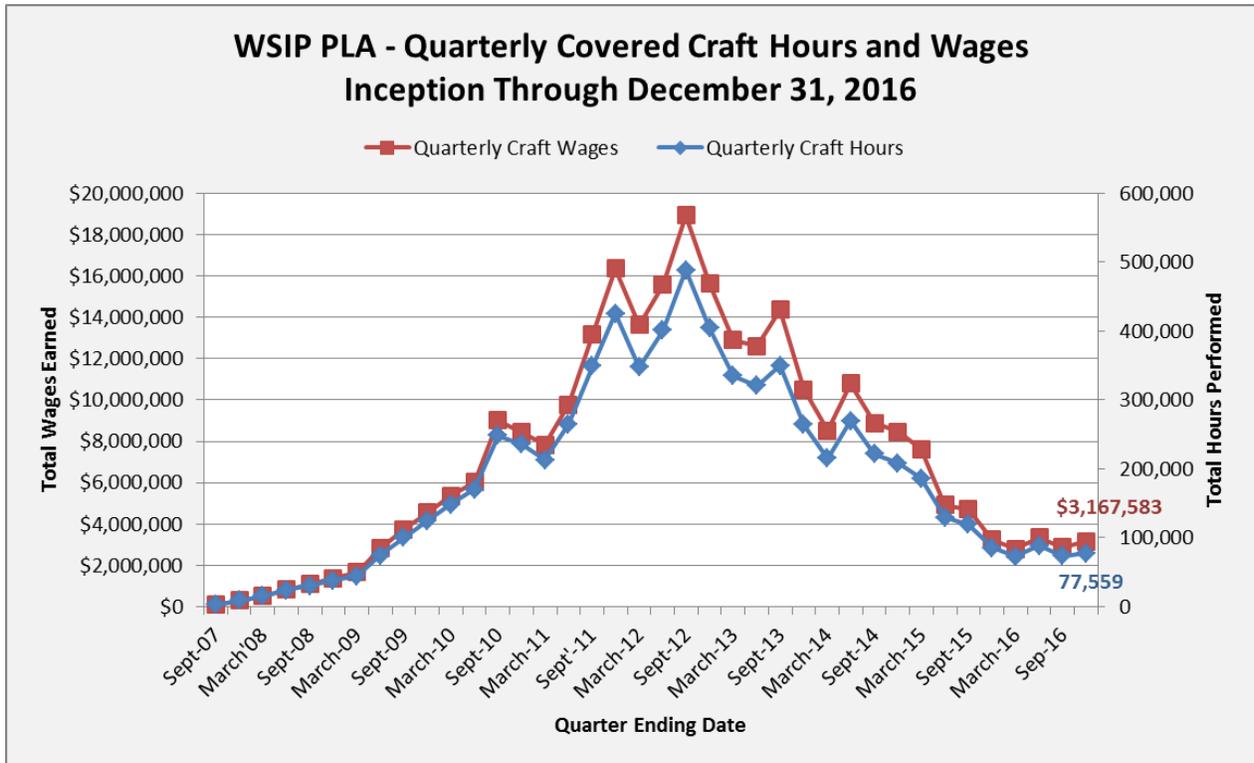
From the inception of the WSIP Project Labor Agreement in March 2007 through the quarter ending December 31, 2016; 13,030 workers on WSIP PLA-covered projects have achieved a cumulative total of 7,710,744 craft hours and \$299,585,467 in craft wages.

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

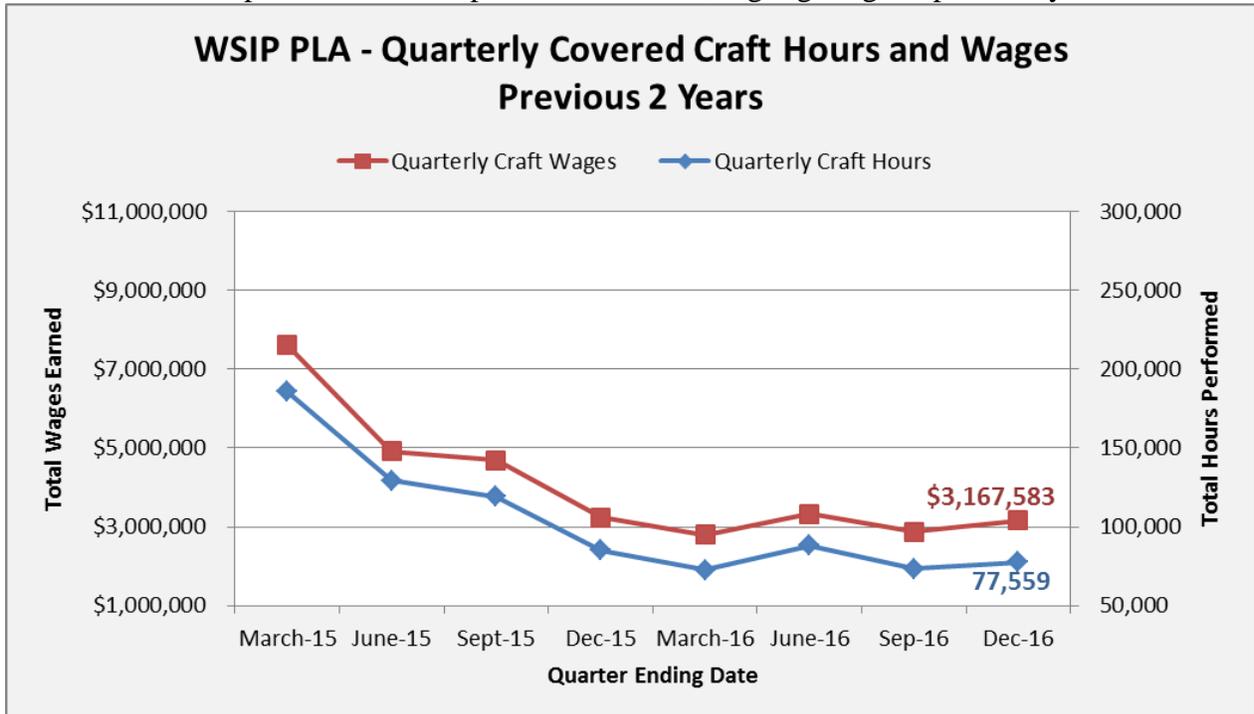


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



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, 2016, contractors reported craft hours in 54 craft worker classifications that the SFPUC summarizes into 32 craft areas.

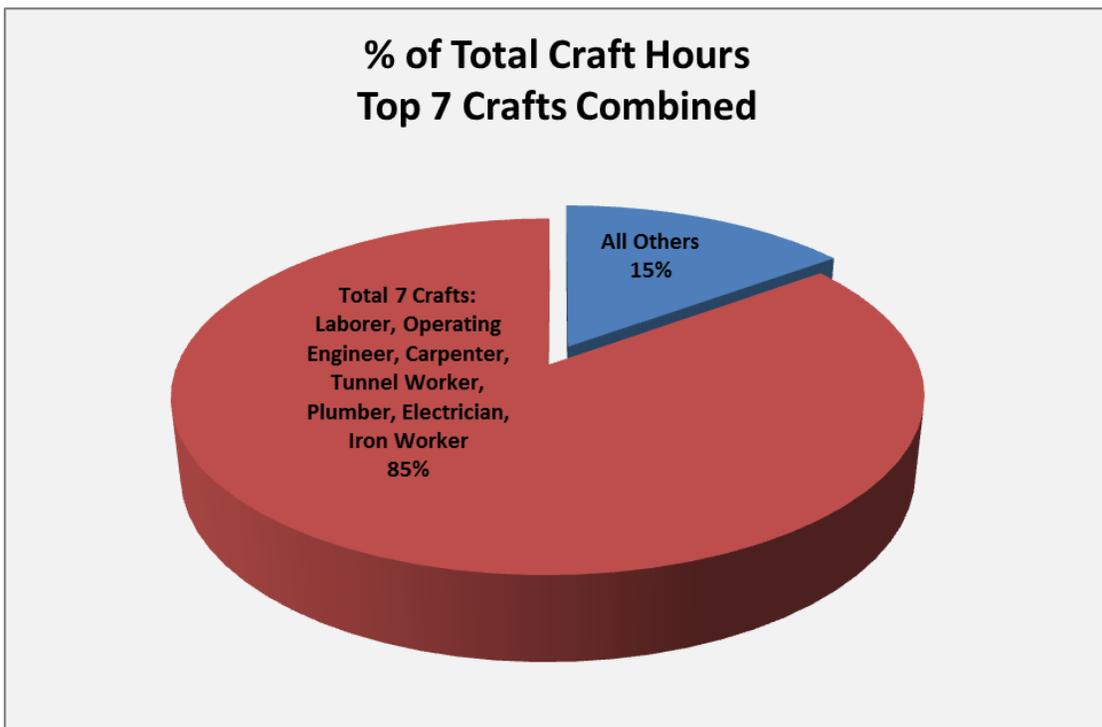
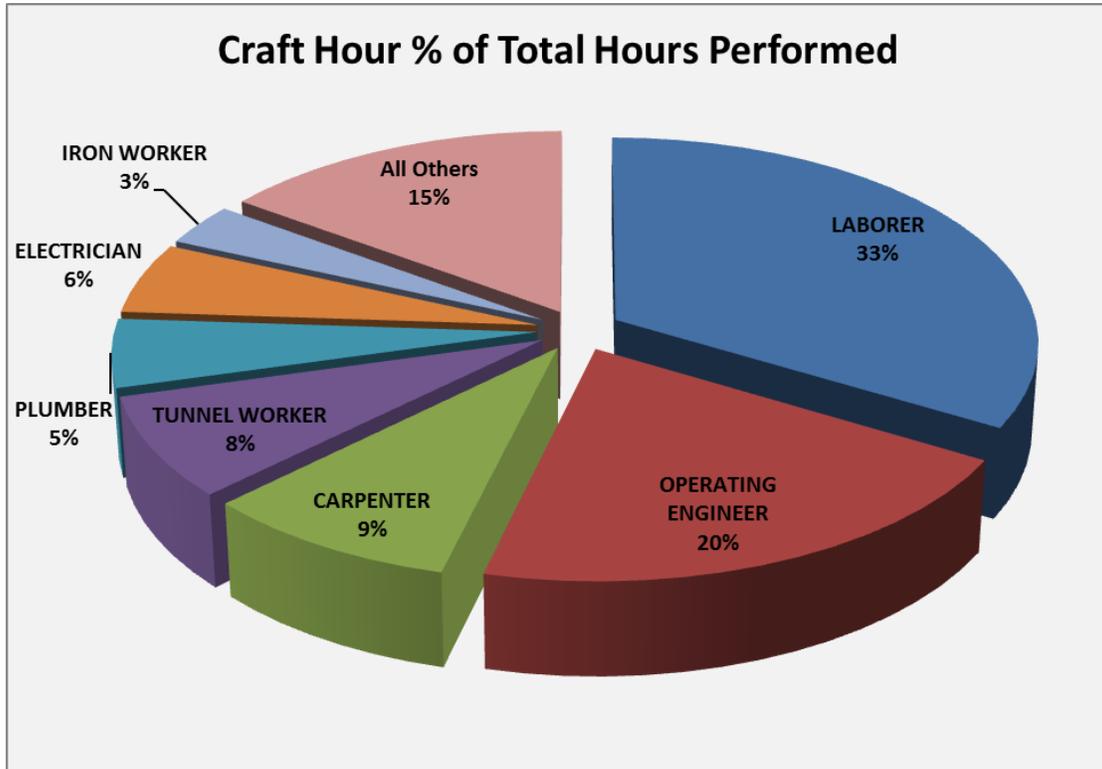
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed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

Sorted by Total Craft Hours

Cumulative Employment by Craft					
Inception Through December 31, 2016					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,576,815	\$ 77,941,939	33.4%	26.0%	1,239
OPERATING ENGINEER (Combined)	1,567,006	\$ 62,762,513	20.3%	20.9%	753
CARPENTER	685,527	\$ 28,492,361	8.9%	9.5%	330
TUNNEL WORKER (LABORER)	610,052	\$ 25,771,601	7.9%	8.6%	293
ELECTRICIAN	431,443	\$ 22,678,887	5.6%	7.6%	207
PLUMBER	412,495	\$ 19,216,954	5.3%	6.4%	198
IRON WORKER	255,006	\$ 8,607,603	3.3%	2.9%	123
Top 7 Sub-Total	6,538,343	\$ 245,471,858	84.8%	81.9%	3,143
PILE DRIVER (CARPENTER)	158,659	\$ 8,501,309	2.1%	2.8%	76
PAINTER	139,968	\$ 5,274,707	1.8%	1.8%	67
CEMENT MASON	119,196	\$ 4,139,990	1.5%	1.4%	57
BOILERMAKER-BLACKSMITH	117,960	\$ 6,205,302	1.5%	2.1%	57
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOIL	63,462	\$ 2,535,147	0.8%	0.8%	31
ROOFER	49,701	\$ 1,689,416	0.6%	0.6%	24
FIELD SURVEYOR	20,164	\$ 805,063	0.3%	0.3%	10
SHEET METAL WORKER	14,480	\$ 686,875	0.2%	0.2%	7
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	0.2%	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	4,279	\$ 185,833	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
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMENT PAINTER (LABORER)	718	\$ 23,239	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROST INSULATOR	507	\$ 28,166	0.0%	0.0%	0
SHEET METAL WORKER (HVAC)	424	\$ 15,243	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
Remaining Apprenticeable Sub-Total	724,055	\$ 31,605,858	9.4%	10.5%	348
Total Non-Apprenticeable	448,346	\$ 22,507,751	5.8%	7.5%	216
Total WSIP-Covered by PLA	7,710,744	\$ 299,585,467	100%	100%	3,707

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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, 2016. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 70% of craft hours worked on PLA-covered projects.



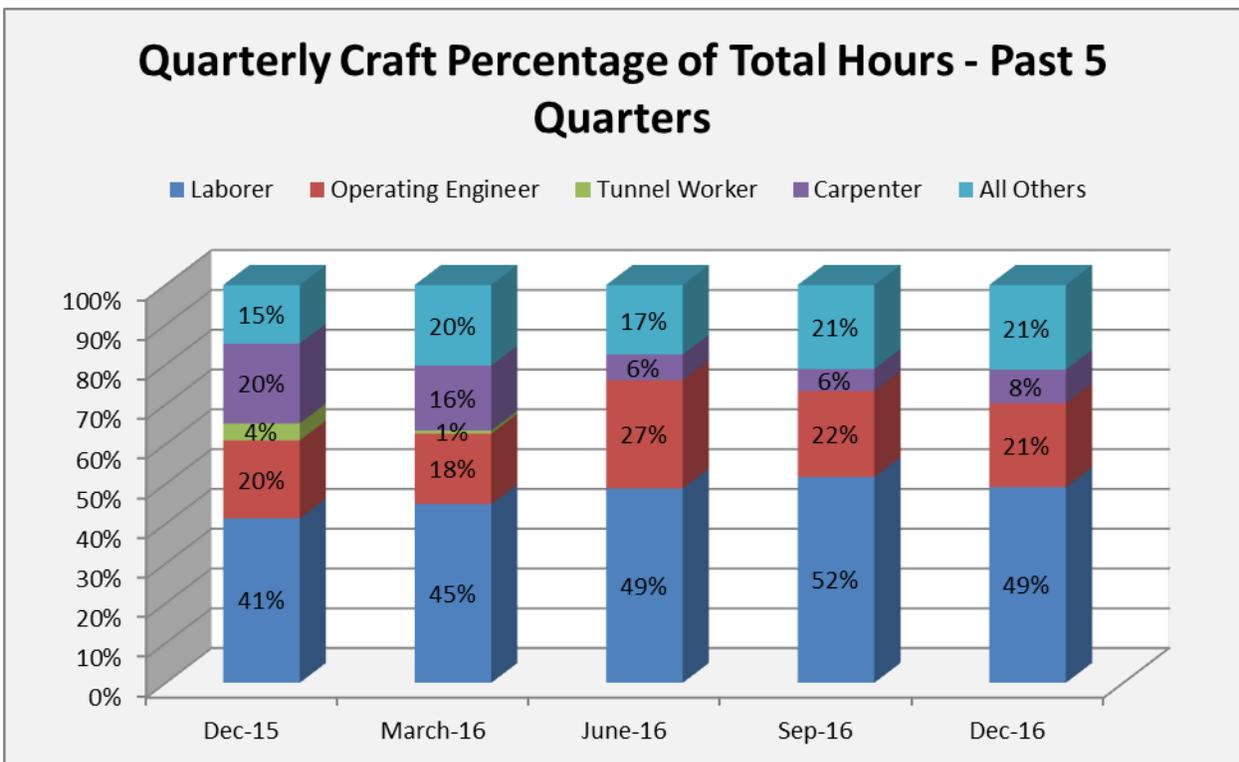
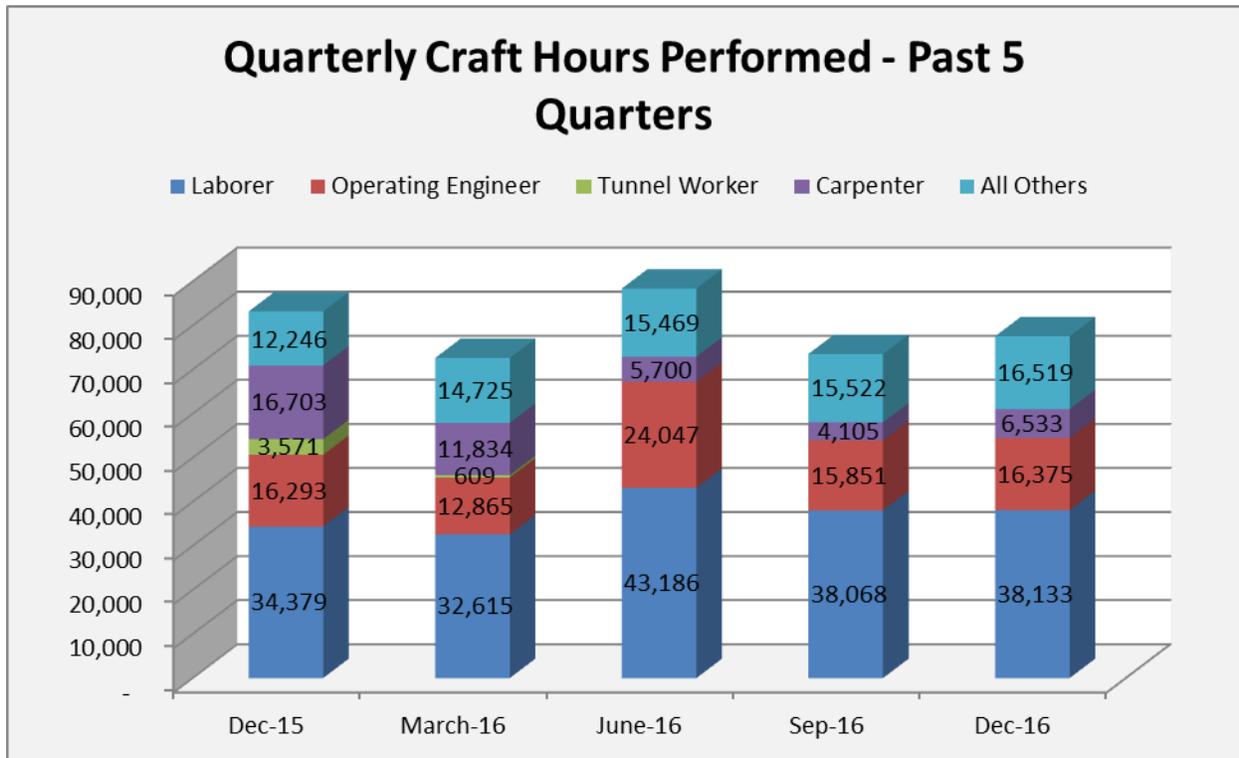
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 9-30-2016 Hours	Quarter Ending 9-30-2016 Wages
LABORER	2,576,815	\$ 77,941,939	38,133	\$ 1,282,659
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	986,684	\$ 40,777,314	7,324	\$ 358,860
OPERATING ENGINEER	526,199	\$ 19,717,010	9,043	\$ 393,949
OPERATING ENGINEER (SPECIAL SINGLE AND SECOND SHIFT)	2,637	\$ 97,521	-	\$ -
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY WORK)	51,487	\$ 2,170,668	8	\$ 384
OPERATING ENGINEER (COMBINED)	1,567,006	\$ 62,762,513	16,375	\$ 753,192
CARPENTER AND RELATED TRADES	685,527	\$ 28,492,361	6,533	\$ 312,045
TUNNEL WORKER (LABORER)	610,052	\$ 25,771,601	-	\$ -
ELECTRICIAN	431,443	\$ 22,678,887	6,489	\$ 365,254
PLUMBER	412,495	\$ 19,216,954	1,036	\$ 68,978
IRON WORKER	255,006	\$ 8,607,603	2,416	\$ 92,137
PILE DRIVER (CARPENTER)	158,659	\$ 8,501,309	157	\$ 9,246
PAINTER	139,968	\$ 5,274,707	432	\$ 16,414
CEMENT MASON	119,196	\$ 4,139,990	278	\$ 10,617
BOILERMAKER-BLACKSMITH	117,960	\$ 6,205,302	48	\$ 5,262
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS AND	63,462	\$ 2,535,147	2,692	\$ 108,901
ROOFER	49,701	\$ 1,689,416	773	\$ 23,617
FIELD SURVEYOR	20,164	\$ 805,063	29	\$ 1,001
SHEET METAL WORKER	14,480	\$ 686,875	392	\$ 19,414
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	97	\$ 3,919
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	-	\$ -
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	-	\$ -
GLAZIER	4,279	\$ 185,833	168	\$ 7,385
PLASTERER	3,750	\$ 132,027	48	\$ 1,937
PLASTER TENDER	1,281	\$ 42,303	8	\$ 268
BRICK TENDER	827	\$ 27,956	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER (LABORER)	718	\$ 23,239	-	\$ -
ASBESTOS WORKER, HEAT AND FROST INSULATOR	507	\$ 28,166	-	\$ -
SHEET METAL WORKER (HVAC)	424	\$ 15,243	252	\$ 6,841
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	-	\$ -
Total Apprenticable	7,262,398	\$ 277,077,716	76,353	\$ 3,089,088
Non-Apprenticeable				
TEAMSTER	126,900	\$ 5,785,531	970	\$ 62,806
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)	97,111	\$ 7,058,639	110	\$ 9,680
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK) (SPECIAL SINGLE AND SECOND SHIFT)	94,777	\$ 4,397,983	127	\$ 6,009
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)	79,075	\$ 3,551,621	-	\$ -
ASBESTOS REMOVAL WORKER (LABORER)	17,057	\$ 431,301	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HEAVY AND HIGHWAY WORK)	13,146	\$ 582,242	-	\$ -
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	-	\$ -
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	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER - HEAVY AND HIGHWAY WORK)	282	\$ 12,787	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER (PAINTER)	265	\$ 8,680	-	\$ -
IRONWORKER (DB)	80	\$ 2,772	-	\$ -
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	\$ 291	-	\$ -
Total Non-Apprenticeable	448,346	\$ 22,507,751	1,207	\$ 78,494
Total Apprenticable	7,262,398	\$ 277,077,716	76,353	\$ 3,089,088
Total WSIP PLA	7,710,744	\$ 299,585,467	77,559	\$ 3,167,583

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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.

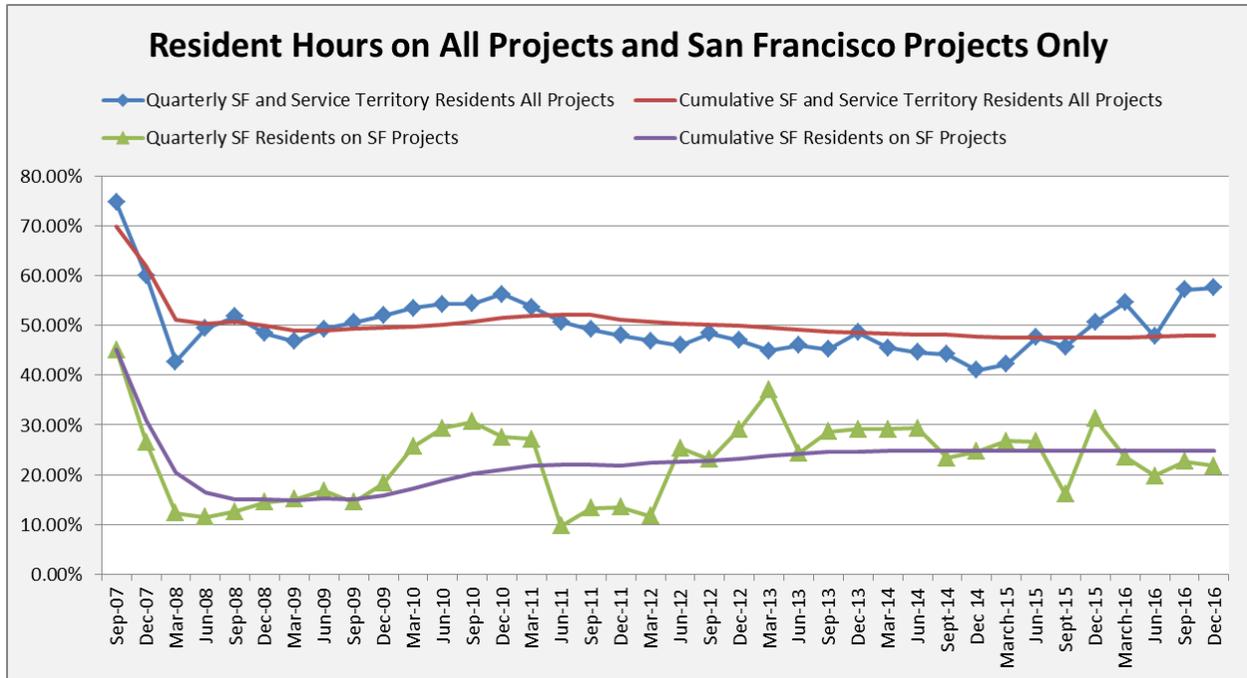


Worker Residence on the WSIP PLA

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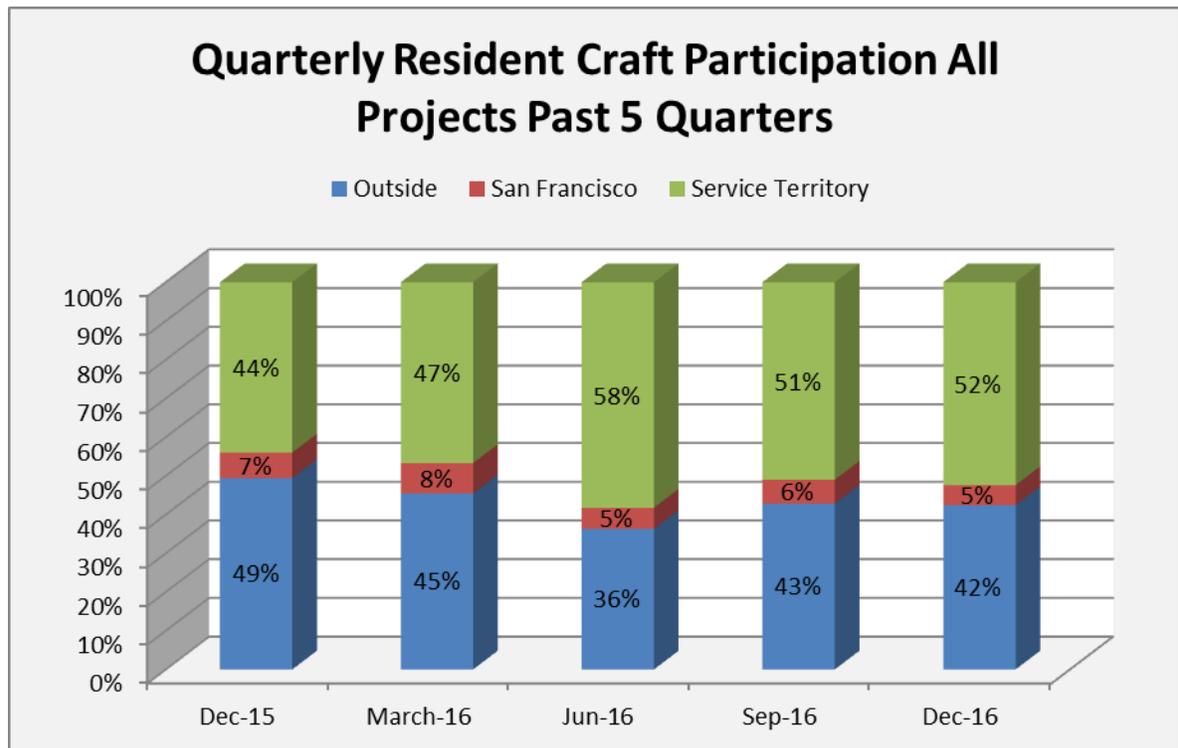
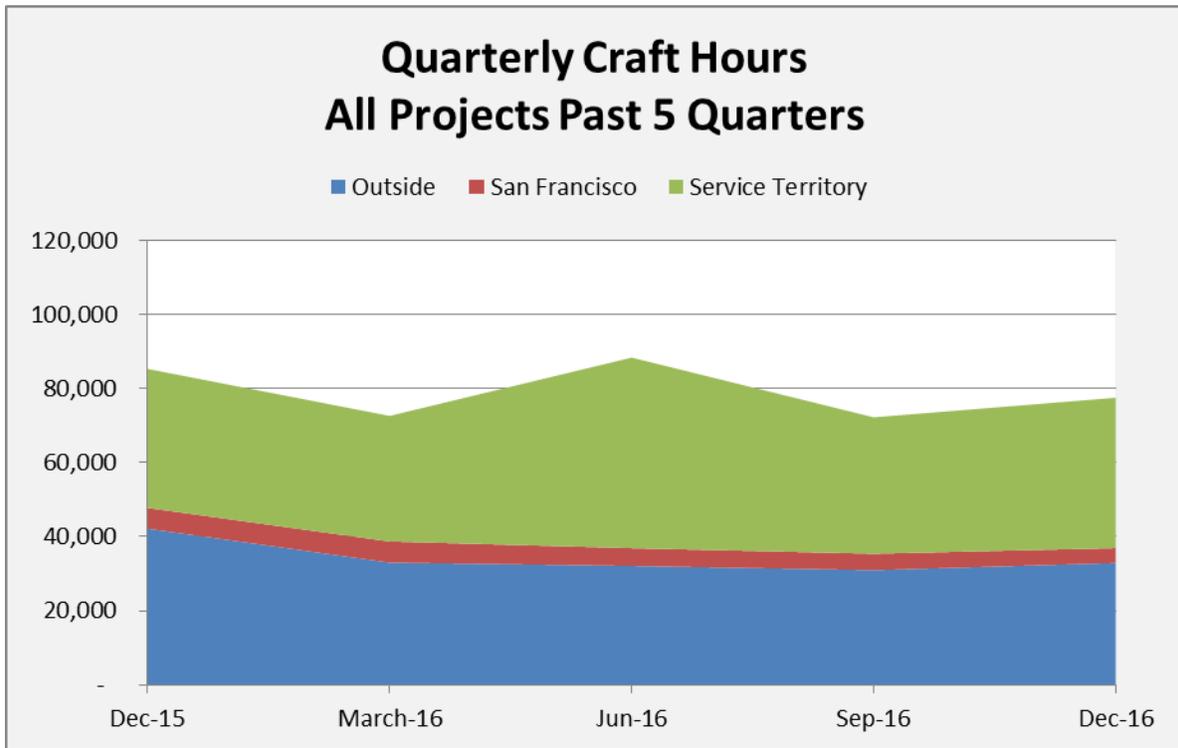
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

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, 2016.



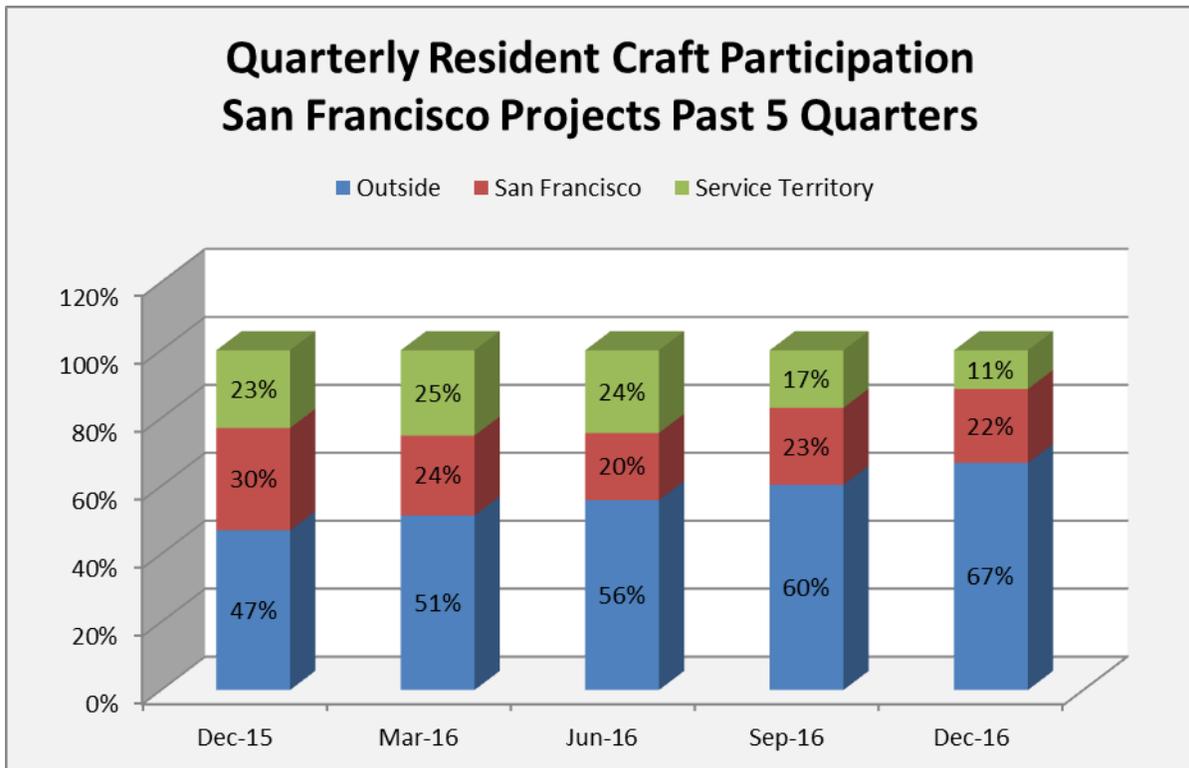
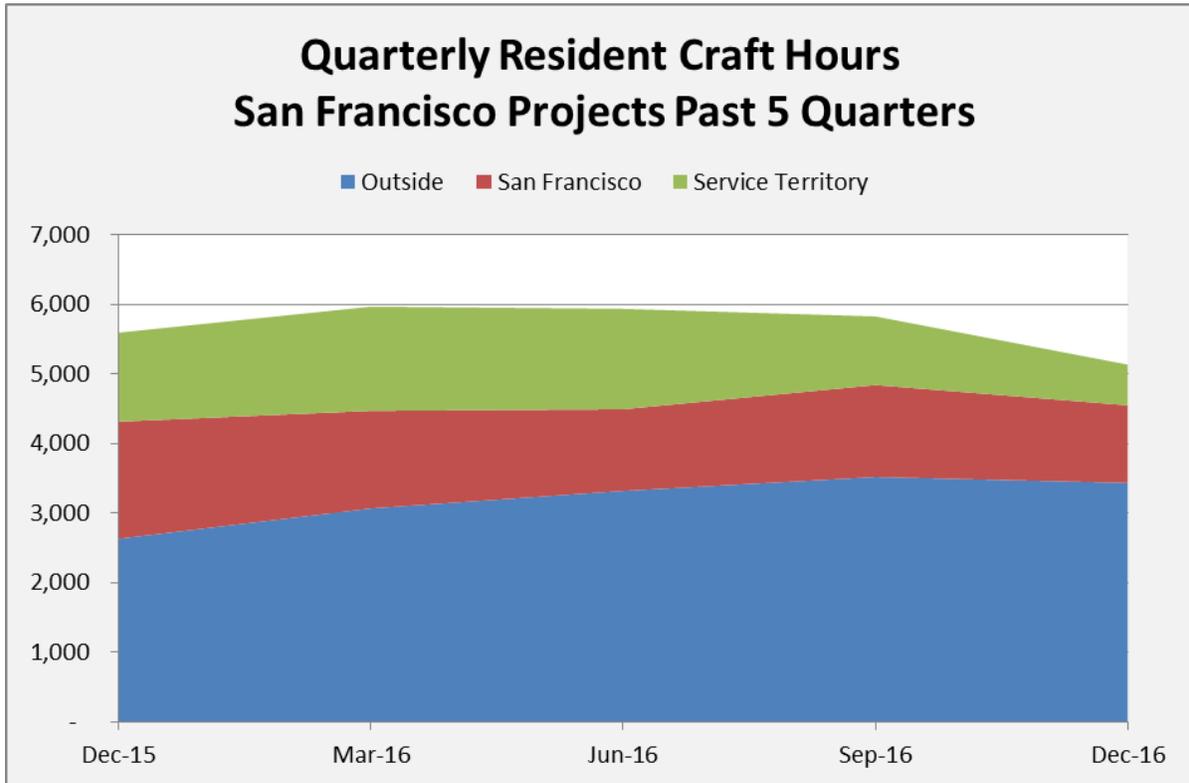
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Residence on ALL WSIP PLA Projects - Charted are 52 of the 52 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



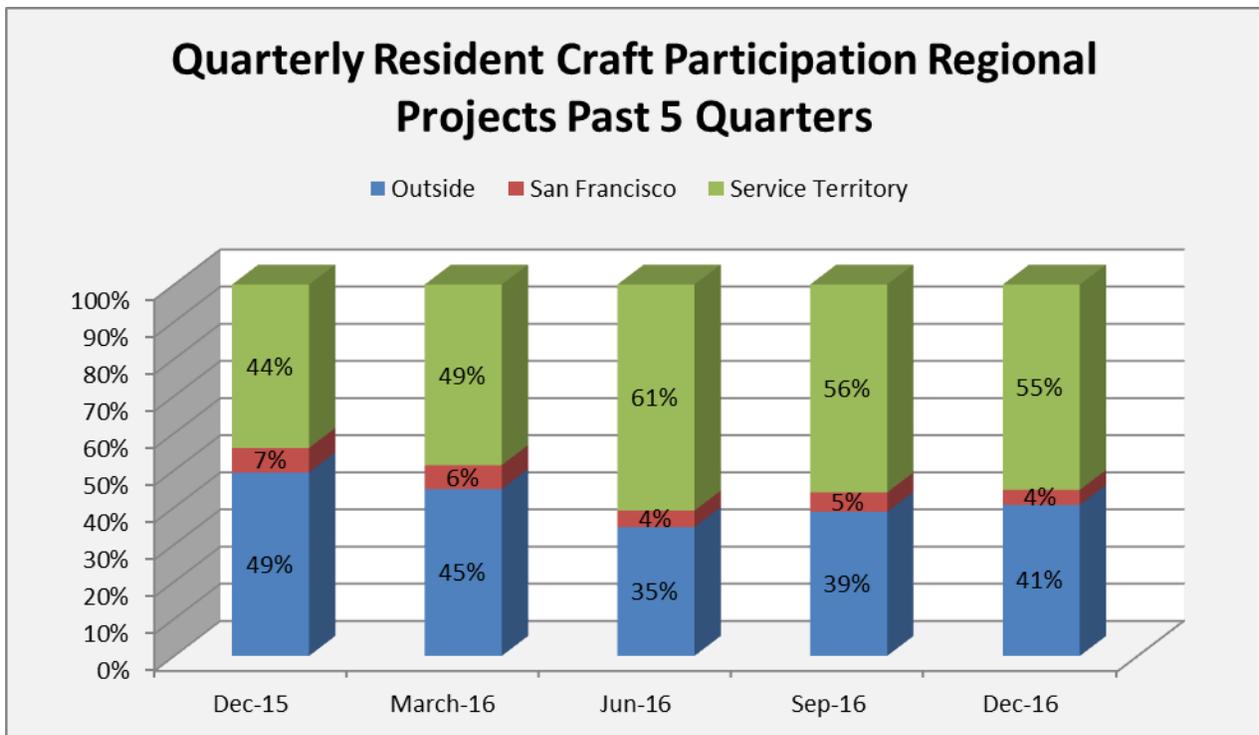
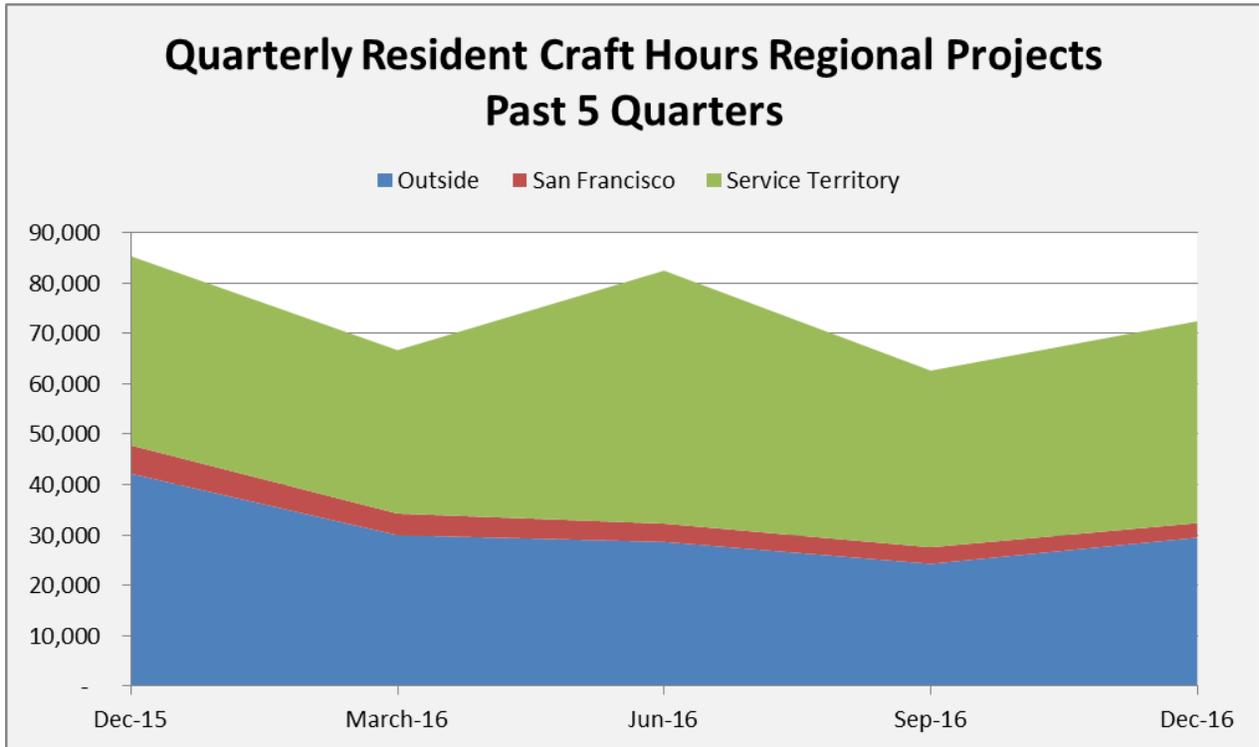
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Residence on San Francisco-located WSIP PLA Projects - Charted are the 14 projects covered by the WSIP PLA located within San Francisco only.



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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

WSIP-PLA Employment by Top 20 Counties of Residence					
Inception Through December 31, 2016					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,397,177	\$ 51,116,297	18.1%	2,649	672
Contra Costa	1,017,816	\$ 39,128,920	13.2%	1,760	489
San Mateo	768,032	\$ 30,417,738	10.0%	1,195	369
San Joaquin	711,298	\$ 26,204,391	9.2%	1,114	342
San Francisco	535,332	\$ 19,843,109	7.0%	1,108	257
Santa Clara	440,100	\$ 17,861,948	5.7%	1,179	212
Solano	384,384	\$ 15,083,875	5.0%	729	185
Stanislaus	336,494	\$ 12,146,346	4.4%	564	162
Sacramento	325,225	\$ 12,686,445	4.2%	539	156
Butte	201,445	\$ 7,918,515	2.6%	114	97
Sonoma	163,168	\$ 6,486,355	2.1%	305	78
Tuolumne	89,988	\$ 3,439,978	1.2%	90	43
Calaveras	89,770	\$ 3,925,510	1.2%	77	43
Placer	76,571	\$ 3,042,509	1.0%	122	37
El Dorado	75,924	\$ 3,098,599	1.0%	82	37
Yolo	67,348	\$ 2,598,597	0.9%	89	32
Los Angeles	66,842	\$ 2,853,022	0.9%	137	32
Clark	62,468	\$ 2,761,891	0.8%	66	30
Shasta	60,729	\$ 2,658,241	0.8%	51	29
Napa	55,313	\$ 2,430,259	0.7%	73	27
Top 20 Counties by Hours	6,925,423	\$ 265,702,545	89.8%	12,043	3,330
All Other Counties	785,321	\$ 33,882,922	10.2%	987	378
WSIP-PLA Total	7,710,744	\$ 299,585,467	100.0%	13,030	3,707

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San Francisco Residents by Zip Code

Sorted by Total Craft Hours

Employment by San Francisco Zip Code					
Inception Through December 31, 2016					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	91,832	\$ 3,199,216	17.1%	187	44
94124	84,665	\$ 3,158,037	15.7%	225	41
94110	78,667	\$ 2,656,714	14.6%	159	38
94116	63,784	\$ 3,093,669	11.8%	73	31
94134	42,180	\$ 1,284,422	7.8%	108	20
94122	28,641	\$ 1,266,134	5.3%	56	14
94121	24,593	\$ 970,150	4.6%	43	12
94103	24,025	\$ 738,458	4.5%	31	12
94127	19,451	\$ 687,333	3.6%	19	9
94102	8,622	\$ 383,703	1.6%	19	4
94132	8,483	\$ 333,470	1.6%	31	4
94118	8,331	\$ 408,224	1.5%	19	4
94117	7,957	\$ 200,923	1.5%	17	4
94131	7,789	\$ 293,784	1.4%	20	4
94107	7,650	\$ 285,395	1.4%	20	4
94133	5,313	\$ 188,764	1.0%	8	3
94114	4,849	\$ 188,038	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	1,765	\$ 51,654	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
Total	535,332	\$ 19,843,109	100%	1,108	257
WSIP-PLA Total	7,710,744	\$ 299,585,467	-	13,030	3,707

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Residence by Craft

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through December 31, 2016							
Craft	Total Hours	San Francisco Hours	SFPUC Service Territory Hours	Outside Hours	% San Francisco Hours	% Service Territory Hours	% Outside Hours
OPERATING ENGINEER (HEAVY AND HIGHWAY)	986,684	17,925	377,442	591,317	1.8%	38.3%	59.9%
CARPENTER AND RELATED TRADES	685,527	77,214	286,901	321,413	11.3%	41.9%	46.9%
TUNNEL WORKER (LABORER)	610,052	11,102	244,642	354,308	1.8%	40.1%	58.1%
OPERATING ENGINEER	526,199	46,390	191,987	287,822	8.8%	36.5%	54.7%
ELECTRICIAN	431,443	23,750	250,761	156,931	5.5%	58.1%	36.4%
PLUMBER	412,495	80,873	133,478	198,145	19.6%	32.4%	48.0%
IRON WORKER	255,006	19,609	95,231	140,167	7.7%	37.3%	55.0%
PILE DRIVER (CARPENTER)	158,659	6,526	42,919	109,215	4.1%	27.1%	68.8%
PAINTER	139,968	8,817	14,317	116,835	6.3%	10.2%	83.5%
CEMENT MASON	119,196	5,694	52,747	60,755	4.8%	44.3%	51.0%
BOILERMAKER-BLACKSMITH	117,960	48	22,945	94,966	0.0%	19.5%	80.5%
BUILDING/CONSTRUCTION INSPECTOR AND FI	63,462	3,939	10,588	48,936	6.2%	16.7%	77.1%
PILE DRIVER (OPERATING ENGINEER - HEAVY A	51,487	499	8,554	42,434	1.0%	16.6%	82.4%
ROOFER	49,701	2,994	27,516	19,191	6.0%	55.4%	38.6%
FIELD SURVEYOR	20,164	1,334	3,923	14,908	6.6%	19.5%	73.9%
SHEET METAL WORKER	14,480	849	9,006	4,625	5.9%	62.2%	31.9%
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	1,435	3,041	7,411	12.1%	25.6%	62.4%
BRICKLAYER, BLOCKLAYER	8,574	82	4,321	4,171	1.0%	50.4%	48.7%
ELECTRICAL UTILITY LINEMAN	6,797	-	211	6,586	0.0%	3.1%	96.9%
GLAZIER	4,279	1,010	1,357	1,912	23.6%	31.7%	44.7%
PLASTERER	3,750	1,270	878	1,603	33.9%	23.4%	42.8%
OPERATING ENGINEER (SPECIAL SINGLE AND S	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%
BRICK TENDER	827	287	19	521	34.7%	2.3%	63.0%
PARKING AND HIGHWAY IMPROVEMENT PAINT	718	-	384	334	0.0%	53.5%	46.5%
ASBESTOS WORKER, HEAT AND FROST INSULA	507	-	197	310	0.0%	38.9%	61.1%
SHEET METAL WORKER (HVAC)	424	212	178	34	49.9%	42.0%	8.0%
CARPET, LINOLEUM, SOFT FLOOR LAYER	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%	0.0%	100.0%
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%
Total Apprenticeable	4,685,583	312,789	1,786,181	2,586,614	6.7%	38.1%	55.2%
LABORER	2,576,815	195,672	1,145,632	1,235,512	7.6%	44.5%	47.9%
Non-Apprenticeable							
TEAMSTER	126,900	9,387	70,223	47,291	7.4%	55.3%	37.3%
DRIVER (ON/OFF-HAULING TO/FROM CONSTR	97,111	16,003	64,534	16,575	16.5%	66.5%	17.1%
OPERATING ENGINEER (HEAVY AND HIGHWAY	94,777	-	40,269	54,508	0.0%	42.5%	57.5%
TUNNEL/UNDERGROUND (OPERATING ENGIN	79,075	70	44,357	34,648	0.1%	56.1%	43.8%
ASBESTOS REMOVAL WORKER (LABORER)	17,057	887	2,256	13,914	5.2%	13.2%	81.6%
TUNNEL/UNDERGROUND (OPERATING ENGIN	13,146	-	3,850	9,296	0.0%	29.3%	70.7%
WATER WELL DRILLER	12,313	-	7,529	4,784	0.0%	61.1%	38.9%
LANDSCAPE MAINTENANCE LABORER	1,691	360	830	501	21.3%	49.1%	29.6%
TREE TRIMMER (HIGH VOLTAGE LINE CLEARAN	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%
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 CONSTRUCT	635	133	229	273	20.9%	36.1%	43.0%
SLURRY SEAL WORKER	592	-	321	271	0.0%	54.3%	45.7%
STEEL ERECTOR AND FABRICATOR (OPERATING	282	-	282	-	0.0%	100.0%	0.0%
PARKING AND HIGHWAY IMPROVEMENT PAINT	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%
Total Non-Apprenticeable	448,346	26,871	237,914	183,561	6.0%	53.1%	40.9%
Total WSIP PLA	7,710,744	535,332	3,169,726	4,005,686	6.9%	41.1%	51.9%

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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, 2016							
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	1,019,869	4,805	389,320	625,745	0.5%	38.2%	61.4%
WD-2596 - Harry Tracy Water Treatment P	1,012,776	63,395	372,000	577,381	6.3%	36.7%	57.0%
WD-2581 - New Irvington Tunnel	730,584	3,538	305,855	421,191	0.5%	41.9%	57.7%
WD-2531 - Bay Division Pipelines Reliabil	574,410	18,400	329,192	226,819	3.2%	57.3%	39.5%
WD-2601 - Crystal Springs / San Andreas T	488,511	25,322	191,992	271,197	5.2%	39.3%	55.5%
WD-2582 - Sunol Valley Water Treatment	462,447	11,765	193,089	257,593	2.5%	41.8%	55.7%
WD-2542 - Bay Division Pipeline No. 5 - P	288,044	2,903	132,445	152,697	1.0%	46.0%	53.0%
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 - E	208,255	14,163	83,047	111,045	6.8%	39.9%	53.3%
WD-2539 - University Mound Reservoir N	187,032	50,004	44,748	92,280	26.7%	23.9%	49.3%
WD-2627R - Sutro Reservoir Rehabilitatio	154,365	49,225	39,318	65,822	31.9%	25.5%	42.6%
HH-935C - San Joaquin Pipeline System - I	144,012	83	80,529	63,401	0.1%	55.9%	44.0%
DB-116 - Tesla Treatment Facility	141,910	2,062	95,072	44,776	1.5%	67.0%	31.6%
WD-2629 - Seismic Upgrade of Bay Divisio	135,960	567	55,316	80,078	0.4%	40.7%	58.9%
WD-2552 - Alameda Siphon No. 4 Project	129,485	1,450	57,593	70,442	1.1%	44.5%	54.4%
WD-2555 - Crystal Springs Pipeline No.2 R	127,805	34,336	35,391	58,078	26.9%	27.7%	45.4%
WD-2498 - New Crystal Springs Bypass (P	117,860	6,825	61,076	49,960	5.8%	51.8%	42.4%
WD-2668 - Regional Groundwater Storage	116,401	19,062	59,489	37,851	16.4%	51.1%	32.5%
WD-2652 - Bioregional Habitat Restoratio	110,655	3,388	44,210	63,057	3.1%	40.0%	57.0%
WD-2548 - Lake Merced Pump Station Ess	101,050	23,185	27,211	50,655	22.9%	26.9%	50.1%
HH-935B - San Joaquin Pipeline System - Y	100,492	426	42,719	57,347	0.4%	42.5%	57.1%
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	45,744	38,581	0.2%	54.1%	45.7%
WD-2513 - San Andreas Pipeline No.3 Inst	83,503	6,294	27,850	49,359	7.5%	33.4%	59.1%
WD-2575 - San Antonio Backup Pipeline	75,263	9,125	31,720	34,418	12.1%	42.1%	45.7%
WD-2504 - Stanford Heights Reservoir Sei	74,300	11,120	19,865	43,315	15.0%	26.7%	58.3%
WD-2501 - Alemany Pump Station	74,085	7,565	28,838	37,682	10.2%	38.9%	50.9%
WD-2727 - Peninsula Pipeline Seismic Up	69,772	14,069	22,624	33,079	20.2%	32.4%	47.4%
WD-2543 - North University Mound Syste	53,265	10,250	18,190	24,826	19.2%	34.1%	46.6%
WD-2573 - Pulgas Balancing Reservoir Str	50,367	5,166	24,787	20,415	10.3%	49.2%	40.5%
WD-2568 - BDPL Nos. 3&4 Crossover Facil	47,910	4,908	14,647	28,355	10.2%	30.6%	59.2%
WD-2641R - Habitat Reserve Program, Ho	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	12,709	23,120	16.8%	29.5%	53.7%
WD-2729 - Fish Passage Facilities Within T	37,598	358	13,673	23,567	1.0%	36.4%	62.7%
WD-2621R - San Francisco Groundwater S	35,682	8,074	6,891	20,718	22.6%	19.3%	58.1%
WD-2469 - Forest Knolls Pump Station and	26,553	3,828	8,140	14,585	14.4%	30.7%	54.9%
WD-2666 - Bioregional Habitat Restoratio	23,492	46	7,032	16,414	0.2%	29.9%	69.9%
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 Cd	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 Reliabil	21,967	341	6,958	14,668	1.6%	31.7%	66.8%
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	2,503	10,919	24.5%	14.1%	61.4%
WD-2566 - San Antonio Pump Station Upg	14,916	101	11,985	2,831	0.7%	80.3%	19.0%
WD-2654R - Peninsula Vegetation Remov	13,534	2,610	4,416	6,508	19.3%	32.6%	48.1%
HH-914R - Roselle Crossover Improvemer	12,859	-	8,789	4,070	0.0%	68.3%	31.7%
HH-953 - Tesla Portal Protection	11,512	4,989	4,453	2,071	43.3%	38.7%	18.0%
WD-2511 - Standby Power Facilities, Vari	11,275	182	6,599	4,494	1.6%	58.5%	39.9%
WD-2640 - Bioregional Habitat Restoratio	10,621	1,259	4,182	5,180	11.9%	39.4%	48.8%
WD-2600 - Regional Groundwater Storage	6,088	-	296	5,792	0.0%	4.9%	95.1%
WD-2589 - Supervisory Control and Data A	1,498	113	242	1,144	7.6%	16.1%	76.3%
Total WSIP PLA	7,710,744	535,332	3,169,726	4,005,686	6.9%	41.1%	51.9%

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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.

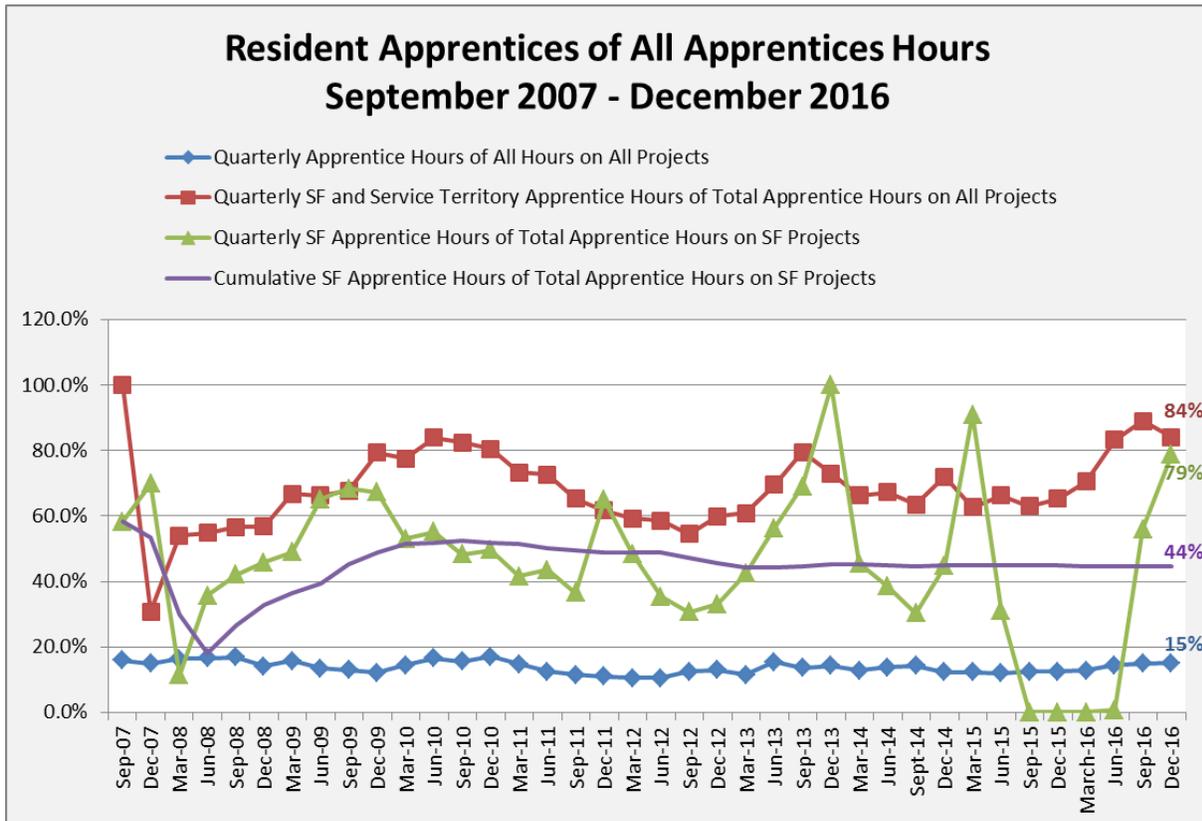
Through the end of the current quarter, 13.4% of craft hours in apprenticeable trades have been worked by apprentices. 17.1% of apprentice hours were worked by San Francisco residents and 54.1% were worked by residents of the Regional Service Territory, or 71.2% combined.

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)	986,684	20,663	3,912	11,459	5,293	2.1%	0.4%	1.2%	18.9%	55.5%	25.6%
A - CARPENTER AND RELATED TRADES	685,527	107,683	27,673	49,893	30,117	15.7%	4.0%	7.3%	25.7%	46.3%	28.0%
A - TUNNEL WORKER (LABORER)	610,052	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - OPERATING ENGINEER	526,199	167,186	24,927	67,077	75,182	31.8%	4.7%	12.7%	14.9%	40.1%	45.0%
A - ELECTRICIAN	431,443	79,157	8,803	55,121	15,234	18.3%	2.0%	12.8%	11.1%	69.6%	19.2%
A - PLUMBER	412,495	113,748	32,748	56,062	24,937	27.6%	7.9%	13.6%	28.8%	49.3%	21.9%
A - IRON WORKER	255,006	55,097	12,179	23,161	19,758	21.6%	4.8%	9.1%	22.1%	42.0%	35.9%
A - PILE DRIVER (CARPENTER)	158,659	12,142	4,451	3,464	4,228	7.7%	2.8%	2.2%	36.7%	28.5%	34.8%
A - PAINTER	139,968	23,749	1,809	3,967	17,973	17.0%	1.3%	2.8%	7.6%	16.7%	75.7%
A - CEMENT MASON	119,196	5,466	3,608	706	1,152	4.6%	3.0%	0.6%	66.0%	12.9%	21.1%
A - BOILERMAKER-BLACKSMITH	117,960	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - BUILDING/CONSTRUCTION INSPECTOR AND	63,462	2,017	5	1,242	770	3.2%	0.0%	2.0%	0.2%	61.6%	38.2%
A - PILE DRIVER (OPERATING ENGINEER - HEAVY	51,487	30	-	-	30	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%
A - ROOFER	49,701	12,429	1,503	6,016	4,910	25.0%	3.0%	12.1%	12.1%	48.4%	39.5%
A - FIELD SURVEYOR	20,164	566	-	58	508	2.8%	0.0%	0.3%	0.0%	10.3%	89.7%
A - SHEET METAL WORKER	14,480	1,652	16	929	707	11.4%	0.1%	6.4%	1.0%	56.2%	42.8%
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	4,279	556	394	20	142	13.0%	9.2%	0.5%	70.9%	3.6%	25.5%
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 - BRICK TENDER	827	24	24	-	-	2.9%	2.9%	0.0%	100.0%	0.0%	0.0%
A - PARKING AND HIGHWAY IMPROVEMENT PA	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 - SHEET METAL WORKER (HVAC)	424	260	212	48	-	61.3%	49.9%	11.3%	81.5%	18.5%	0.0%
A - CARPET, UNOLEUM, 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	4,685,583	609,604	122,579	282,483	204,542	13.0%	2.6%	6.0%	20.1%	46.3%	33.6%
A - LABORER	2,576,815	361,807	43,894	245,196	72,719	14.0%	1.7%	9.5%	12.1%	67.8%	20.1%
A-Operating Engineer (COMBINED)	1,567,006	189,040	28,838	79,583	80,620	12.1%	1.8%	5.1%	15.3%	42.1%	42.6%
Total Apprenticeable	7,262,398	971,411	166,473	527,679	277,261	13.4%	2.3%	7.3%	17.1%	54.3%	28.5%
Total Non-Apprenticeable	448,346	-	-	-	-	-	-	-	-	-	-
Total WSIP - Covered by PLA	7,710,744	-	-	-	-	-	-	-	-	-	-

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For the three months ending December 31, 2016, 79% 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.



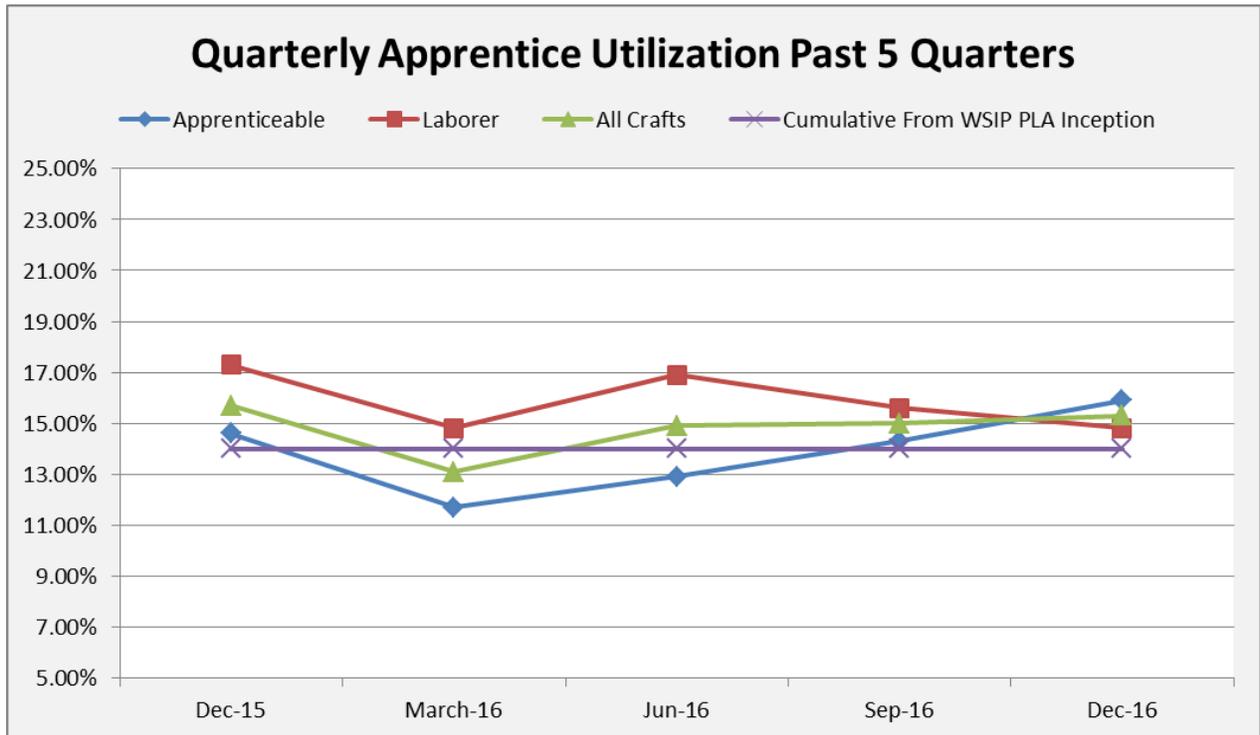
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 14%. This is slightly higher than the 13.4% mentioned in the *Apprentice 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, 2016											
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 I	227,027	226,142	-	885	227,027	79,373	-	79,373	35.1%	0.0%	35.0%
HH-953 - Tesla Portal Prote	11,512	4,377	133	7,002	11,379	487	2,768	3,255	11.1%	39.5%	28.6%
WD-2498 - New Crystal Spa	117,860	51,381	54,937	11,543	62,923	12,361	5,252	17,612	24.1%	45.5%	28.0%
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%
DB-116 - Tesla Treatment f	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2652 Bioregional Habi	110,655	19,428	3,086	88,140	107,568	1,492	19,170	20,661	7.7%	21.7%	19.2%
WD-2727 Peninsula Pipeli	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
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-2575 San Antonio Bac	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2640 Bioregional Habi	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2668 Regional Ground	116,401	73,641	675	42,086	115,727	13,383	5,614	18,997	18.2%	13.3%	16.4%
WD-2539 - University Mou	187,032	106,332	1,199	79,502	185,834	23,851	6,500	30,350	22.4%	8.2%	16.3%
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-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-2573 - Pulgas Balancin	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
HH-914R - Roselle Crossover	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
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 Wat	1,012,776	673,586	40,826	298,364	971,950	108,222	35,995	144,217	16.1%	12.1%	14.8%
WD-2600 Regional Ground	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
WD-2551 Calaveras Dam R	1,019,869	580,141	28,965	410,763	990,904	65,971	74,816	140,788	11.4%	18.2%	14.2%
WD-2627R Sutro Reservoir	154,365	77,214	8,900	68,252	145,465	15,391	5,248	20,639	19.9%	7.7%	14.2%
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-2504 - Stanford Heigh	74,300	40,450	-	33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2531 - Bay Division Pip	574,410	161,855	335,566	76,989	238,844	13,883	17,719	31,602	8.6%	23.0%	13.2%
WD-2513 - San Andreas Pip	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
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-2621R San Francisco G	35,682	20,982	-	14,699	35,682	2,654	1,758	4,412	12.6%	12.0%	12.4%
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-935C - San Joaquin Pip	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2601 - Crystal Springs	488,511	300,755	57,401	130,355	431,111	37,805	10,835	48,640	12.6%	8.3%	11.3%
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-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 Pu	101,050	72,283	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
HH-935A - San Joaquin Pip	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
WD-2729 Fish Passage Fac	37,598	18,575	3,431	15,593	34,167	2,350	1,292	3,642	12.7%	8.3%	10.7%
HH-935B - San Joaquin Pip	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
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-2541 - Bay Division Pip	208,255	89,103	12,808	106,345	195,448	10,026	10,170	20,196	11.3%	9.6%	10.3%
WD-2542 - Bay Division Pip	288,044	90,616	31,498	165,930	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
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-2654R Peninsula Vege	13,534	2,232	-	11,302	13,534	8	1,236	1,244	0.4%	10.9%	9.2%
WD-2591 - Lower Crystal S	98,656	40,891	1,323	56,442	97,333	4,833	3,853	8,685	11.8%	6.8%	8.9%
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-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-2666 Bioregional Habi	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2589 - Supervisory Co	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2623 - Harding Park Re	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2543 - North Universit	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2511 - Standby Power	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2529 - Noe Valley Tran	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2564 - Harry Tracy Wat	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WSIP - Covered by PLA (50	7,710,744	4,362,436	771,663	2,576,645	6,939,081	710,606	361,807	971,411	14.0%	14.0%	14.0%

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending December 31, 2016. 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 0.8%, the Apprenticeable trades increased by 1.6% , and the Laborer and Apprenticeable crafts combined (All Crafts) show an increase of about 0.3%. However, the overall cumulative percentage has remained the same.



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Jobs Training and Opportunities Program (JTOP)

As of December 31, 2016, the SFPUC and City staff has referred 625 apprentices and 351 journeypersons to WSIP PLA-covered projects from our community-based partners in Job Training Programs and through the Labor Unions. These 976 individuals represent 11.7% of the total hours worked and 8.9% of the wages earned.*

WSIP-PLA Referred Workers By Job Training and Opportunities Program Inception Through December 31, 2016						
Referred Apprentice Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Apprentices	% Of Total Apprentice Hours	% Of Total Apprentice Wages
CityBuild Referral Services	75	34,596	\$ 901,934	4.3%	3.6%	3.6%
CityBuild Academy	51	38,196	\$ 944,139	2.9%	3.9%	3.7%
Cypress Mandela Training Center, Inc.	50	73,818	\$ 1,780,975	2.9%	7.6%	7.0%
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	73	90,753	\$ 2,165,368	4.2%	9.3%	8.6%
Northern California Construction and Training, Inc.	7	7,256	\$ 158,831	0.4%	0.7%	0.6%
Union	290	217,893	\$ 5,596,332	16.7%	22.4%	22.1%
San Joaquin County Office of Ed. YouthBuild	10	16,290	\$ 351,531	0.6%	1.7%	1.4%
SFPUC	61	55,341	\$ 1,443,166	3.5%	5.7%	5.7%
Sponser	6	30,085	\$ 805,501	0.3%	3.1%	3.2%
Total Referred Apprentice Workers	625	571,892	\$ 14,358,354	36.0%	58.9%	56.7%
Non-Referred Apprentices	1,113	399,521	\$ 10,960,960	64.0%	41.1%	43.3%
Total Apprentices	1,738	971,413	\$ 25,319,314	100.0%	100.0%	100.0%

Referred Journeyman Workers						
Referring Agency	Workers	Hours	Wages	% Of Total Journey Level Workers	% Of Total Journey Hours	% Of Total Journey Wages
CityBuild Referral Services	81	53,037	\$ 2,250,608	0.8%	0.8%	0.8%
CityBuild Academy	11	8,399	\$ 281,284	0.1%	0.1%	0.1%
Cypress Mandela Training Center, Inc.	11	12,561	\$ 415,303	0.1%	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	17,508	\$ 544,527	0.1%	0.3%	0.2%
Northern California Construction and Training, Inc.	1	1,640	\$ 42,809	0.0%	0.0%	0.0%
Union	195	190,983	\$ 7,184,011	1.9%	2.8%	2.6%
San Joaquin County Office of Ed. YouthBuild	1	312	\$ 7,924	0.0%	0.0%	0.0%
SFPUC	32	44,412	\$ 1,536,550	0.3%	0.7%	0.6%
Sponser	2	4,919	\$ 183,750	0.0%	0.1%	0.1%
Total Referred Journeyman Workers	351	333,818	\$ 12,448,754	3.3%	5.0%	4.6%
Total Journeypersons	10,358	6,739,331	\$ 274,266,153	100.0%	100.0%	100.0%

Total Workforce						
Total Referred Workers (J+A)	976	905,710	\$ 26,807,108	8.2%	11.7%	8.9%
All Non-Referred Workers						
All Non-Referred Workers	10,985	6,805,034	\$ 272,778,359	92.6%	88.3%	91.1%
Total Workforce	11,867	7,710,744	\$ 299,585,467	100.0%	100.0%	100.0%

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

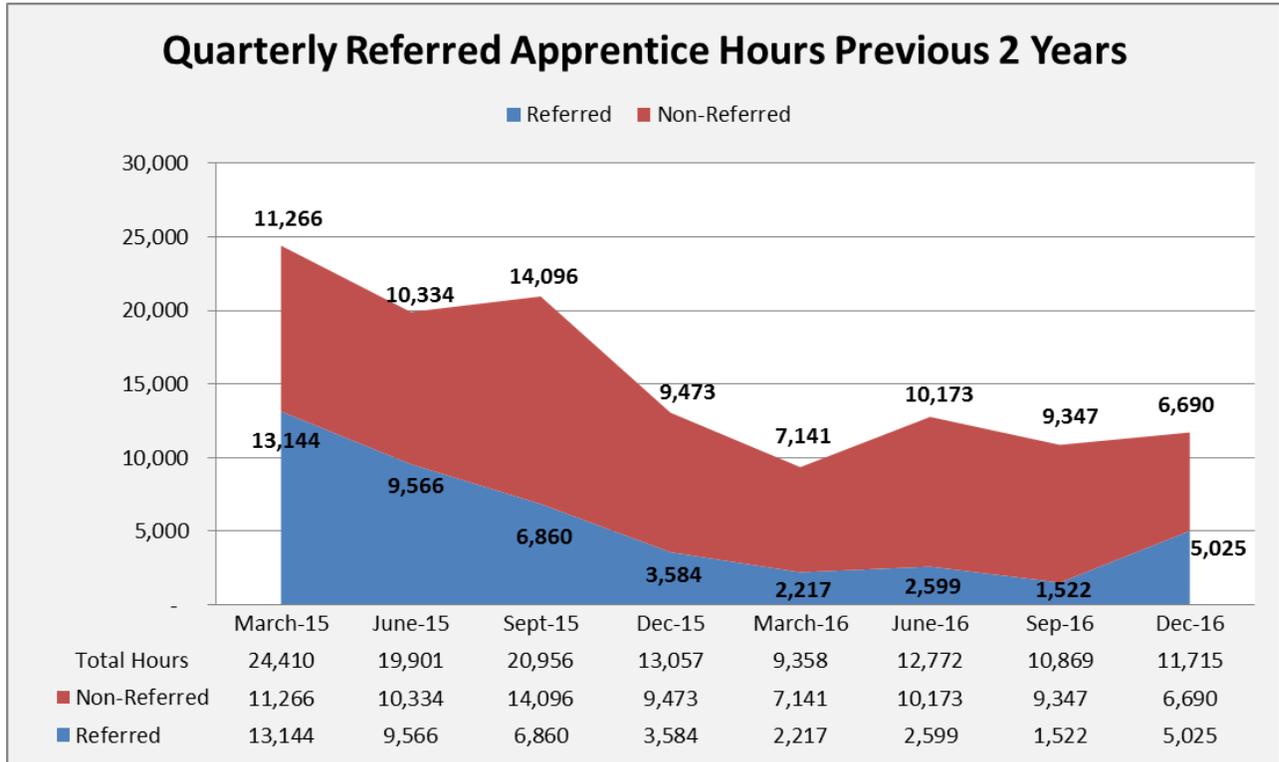
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through December 31, 2016									
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 %
HH-953 - Tesla Portal Protection	11,512	3,255	8,257	3,255	865	4,120	100.0%	10.5%	35.8%
WD-2651R Peninsula 2011 Watershed Cor	22,569	3,135	19,435	2,372	3,551	5,923	75.7%	18.3%	26.2%
WD-2623 - Harding Park Recycled Water P	22,727	1,645	21,082	1,280	3,659	4,938	77.8%	17.4%	21.7%
WD-2727 Peninsula Pipeline Seismic Upg	69,772	11,858	57,914	8,229	5,687	13,916	69.4%	9.8%	19.9%
WD-2555 - Crystal Springs Pipeline No.2 P	127,805	12,953	114,853	12,193	11,757	23,950	94.1%	10.2%	18.7%
WD-2652 Bioregional Habitat Restoration	110,655	20,661	89,993	14,823	5,899	20,722	71.7%	6.6%	18.7%
WD-2551 Calaveras Dam Replacement Pro	1,019,869	140,788	879,082	112,577	70,929	183,506	80.0%	8.1%	18.0%
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-2668 Regional Groundwater Storage	116,401	18,997	97,404	7,694	11,404	19,097	40.5%	11.7%	16.4%
WD-2622 San Francisco Groundwater Sup	17,782	2,092	15,690	1,286	1,596	2,882	61.5%	10.2%	16.2%
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-2654R Peninsula Vegetation Remova	13,534	1,244	12,290	1,021	1,119	2,140	82.1%	9.1%	15.8%
WD-2627R Sutro Reservoir Rehabilitation	154,365	20,639	133,726	17,701	6,589	24,290	85.8%	4.9%	15.7%
WD-2629 Seismic Upgrade of Bay Divisio	135,960	21,881	114,079	17,193	4,064	21,256	78.6%	3.6%	15.6%
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-2539 - University Mound Reservoir N	187,032	30,350	156,682	14,817	12,887	27,703	48.8%	8.2%	14.8%
WD-2548 - Lake Merced Pump Station Ess	101,050	10,807	90,244	3,851	10,836	14,687	35.6%	12.0%	14.5%
WD-2641R Habitat Reserve Program, Hom	44,018	9,222	34,796	4,946	1,360	6,306	53.6%	3.9%	14.3%
WD-2601 - Crystal Springs / San Andreas T	488,511	48,640	439,871	41,550	27,188	68,739	85.4%	6.2%	14.1%
WD-2640 Bioregional Habitat Restoration	10,621	1,615	9,006	1,407	75	1,482	87.1%	0.8%	13.9%
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-2666 Bioregional Habitat Restoration	23,492	1,843	21,649	906	2,039	2,945	49.2%	9.4%	12.5%
WD-2596 - Harry Tracy Water Treatment P	1,012,776	144,217	868,560	81,815	37,310	119,124	56.7%	4.3%	11.8%
WD-2591 - Lower Crystal Springs Dam Imp	98,656	8,685	89,970	6,917	4,086	11,003	79.6%	4.5%	11.2%
WD-2556 - Baden and San Pedro Valve Lo	19,939	2,738	17,201	2,069	98	2,167	75.6%	0.6%	10.9%
CS-936 - Advanced Meter Infrastructure	227,027	79,373	147,654	4,405	20,110	24,515	5.5%	13.6%	10.8%
WD-2513 - San Andreas Pipeline No.3 Ins	83,503	9,311	74,192	8,522	513	9,035	91.5%	0.7%	10.8%
WD-2531 - Bay Division Pipelines Reliabil	574,410	31,602	542,808	27,311	26,382	53,693	86.4%	4.9%	9.3%
WD-2542 - Bay Division Pipeline No. 5 - P	288,044	26,210	261,834	20,197	4,770	24,967	77.1%	1.8%	8.7%
WD-2541 - Bay Division Pipeline No. 5 - E	208,255	20,196	188,059	10,927	5,850	16,777	54.1%	3.1%	8.1%
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-2582 - Sunol Valley Water Treatment	462,447	68,616	393,832	27,121	8,367	35,488	39.5%	2.1%	7.7%
WD-2469 - Forest Knolls Pump Station an	26,553	2,907	23,646	1,961	52	2,013	67.5%	0.2%	7.6%
WD-2504 - Stanford Heights Reservoir Sei	74,300	9,891	64,409	1,336	4,241	5,577	13.5%	6.6%	7.5%
WD-2581 - New Irvington Tunnel	730,584	51,750	678,834	37,436	15,218	52,653	72.3%	2.2%	7.2%
DB-116 - Tesla Treatment Facility	141,910	26,991	114,920	7,450	1,884	9,334	27.6%	1.6%	6.6%
WD-2529 - Noe Valley Transmission Main	22,511	1,133	21,378	1,133	263	1,396	100.0%	1.2%	6.2%
WD-2566 - San Antonio Pump Station Upg	14,916	1,798	13,119	931	-	931	51.8%	0.0%	6.2%
WD-2501 - Alemany Pump Station	74,085	7,625	66,460	3,275	1,175	4,450	43.0%	1.8%	6.0%
WD-2573 - Pulgas Balancing Reservoir Str	50,367	7,817	42,550	1,458	1,282	2,740	18.6%	3.0%	5.4%
WD-2543 - North University Mound Syste	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2600 Regional Groundwater Storage	6,088	296	5,792	296	-	296	100.0%	0.0%	4.9%
WD-2621R San Francisco Groundwater Su	35,682	4,412	31,270	1,495	186	1,681	33.9%	0.6%	4.7%
WD-2568 - BDPL Nos. 3&4 Crossover Facil	47,910	4,538	43,373	2,020	185	2,205	44.5%	0.4%	4.6%
WD-2729 Fish Passage Facilities Within Th	37,598	3,642	33,957	609	926	1,535	16.7%	2.7%	4.1%
HH-935A - San Joaquin Pipeline System -	84,483	9,009	75,474	2,977	422	3,399	33.0%	0.6%	4.0%
WD-2564 - Harry Tracy Water Treatment P	43,049	2,089	40,961	1,329	211	1,540	63.6%	0.5%	3.6%
HH-914R - Roselle Crossover Improvemen	12,859	1,943	10,917	256	32	288	13.2%	0.3%	2.2%
WD-2498 - New Crystal Springs Bypass (P	117,860	17,612	100,248	319	291	610	1.8%	0.3%	0.5%
WD-2511 - Standby Power Facilities, Vari	11,275	626	10,649	-	4	4	0.0%	0.0%	0.0%
WD-2589 - Supervisory Control and Data	1,498	115	1,383	-	-	-	0.0%	0.0%	0.0%
Total WSIP PLA	7,710,744	971,413	6,739,331	571,892	333,818	905,710	58.9%	5.0%	11.7%

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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 5,025 referred hours during the quarter, referred apprentices represented 43% of the apprentice hours this quarter.



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.

13,908 pre-employment tests have been administered as of December 31, 2016 to people who were cleared to work. 180 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 **1.28%** 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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WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary Tests Administered to Individuals Cleared to Work Through 12/31/2016	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 Calaveras Dam Replacement Project	1,431
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
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-2668 Regional Groundwater Storage and Recovery	223
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-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2621R San Francisco Groundwater Supply Well Stations	92
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-2729 Fish Passage Facilities Within The Alameda Creek Watershed	64
WD-2651R Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Skyline Blvd. Point, and Upper	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	-
WD-2640 Bioregional Habitat Restoration	-
Total Cleared	13,908

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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, 2017
(Third Quarter FY 2016-2017)**

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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-three (53) WSIP contracts have been awarded subject to the WSIP PLA in the amount of \$2.074 billion in original contract award through March 31, 2017.

Construction Activity Highlights – Program-to-Date

Contracting:

- Fifty-three (53) construction contracts with a value of \$2.074 billion in original contract award have been awarded subject to the WSIP PLA.

Employment:

- Since inception, 13,084 construction workers were employed for 7,757,479 hours and earned wages of \$301,562,880 on WSIP PLA-covered projects.
- 1,108 San Francisco residents worked 536,682 hours and earned \$19,944,727 on WSIP PLA-covered projects representing 7% of covered hours and 258 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. 5,827 residents of the Regional Service Territory earned wages of \$126,588,360 and worked 3,327,237 hours, representing 43% of covered hours and 1,600 full-time equivalent worker years.
- 13,958 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of March 31, 2017. 180 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, 2017			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,084	7,757,479	\$ 301,562,880	3,730
San Francisco	1,108	536,682	\$ 19,944,727	258
SFPUC Service Territory	5,827	3,327,237	\$ 126,588,360	1,600
Outside	6,480	3,893,560	\$ 155,029,792	1,872

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Construction Activity Highlights – Quarter Ending March 31, 2017

Contracting:

- WD-2798 San Francisco Westside Recycled Water Pipeline was awarded to JMB Construction, Inc. on November 8, 2016, for a total contract amount of \$21,729,720. The work on this contract will primarily be the construction of a new recycled water supply of up to two million gallons per day.

Employment:

- 242 construction workers were employed for 36,459 hours and earned wages of \$1,562,508 on WSIP PLA-covered projects.
- 17 San Francisco residents worked 2,077 hours and earned wages of \$75,824 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, 118 residents of the Regional Service Territory worked 19,718 hours and earned wages of \$879,997 on WSIP PLA-covered projects.
- 50 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and no 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, 2017			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	242	36,459	\$ 1,562,508	18
San Francisco	17	2,077	\$ 75,824	1
SFPUC Service Territory	118	19,718	\$ 879,997	9
Outside	107	14,665	\$ 606,688	7

*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, 2017					
Award Date	Contract No.	Prime Contractor	Project	Engineer's Estimate	Award \$
01/24/17	WD-2809	Western Water Constructors, I	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 Watersh	\$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, I	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 Poin	\$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 Dri	\$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 \$88 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
Total 53 Projects					\$ 2,074,744,320

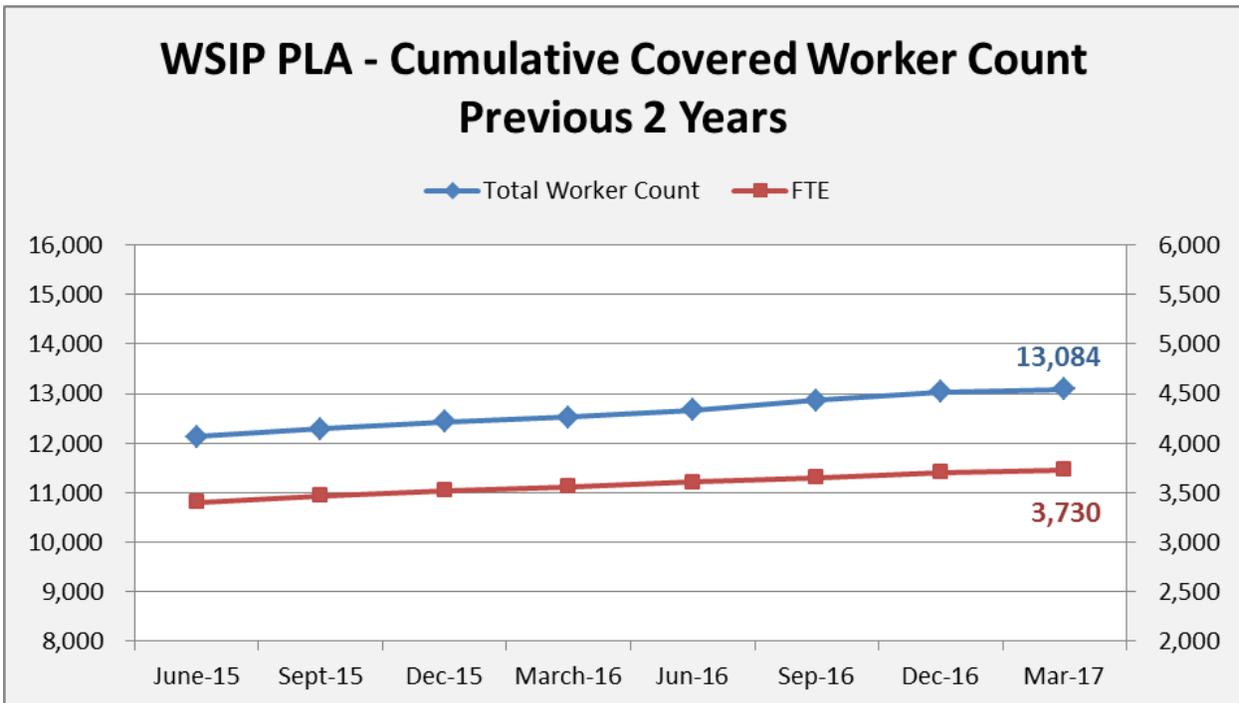
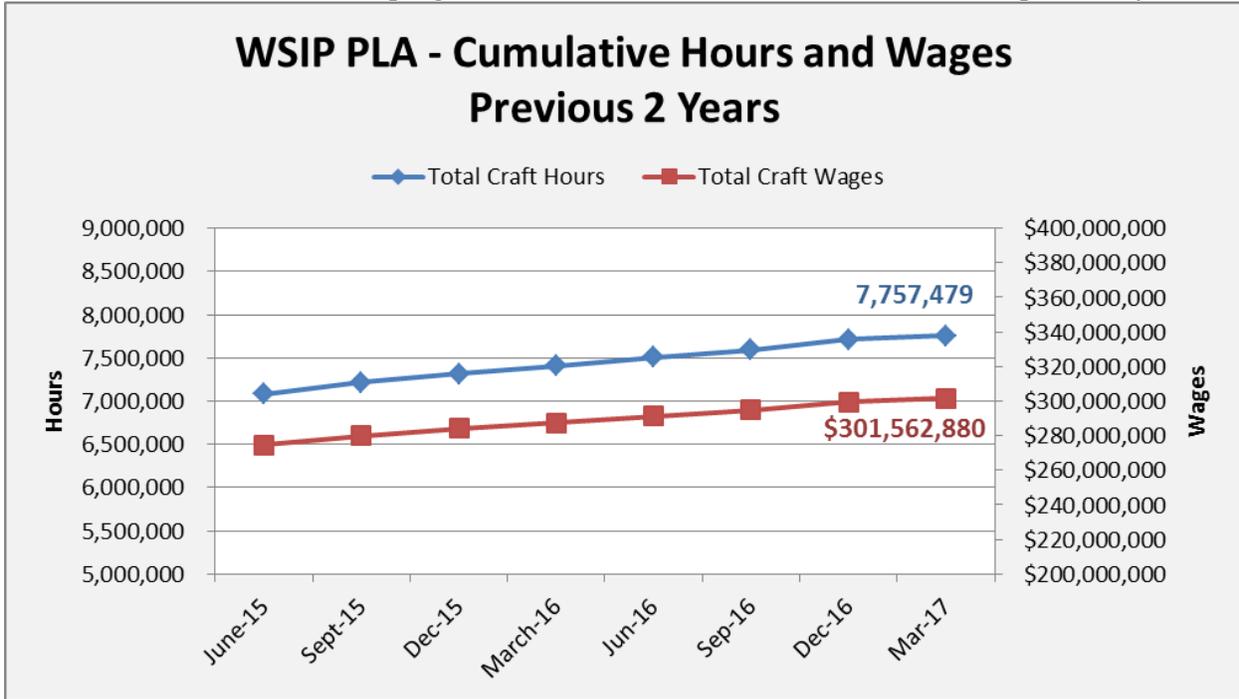
* indicates projects located in San Francisco

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Summary Charts

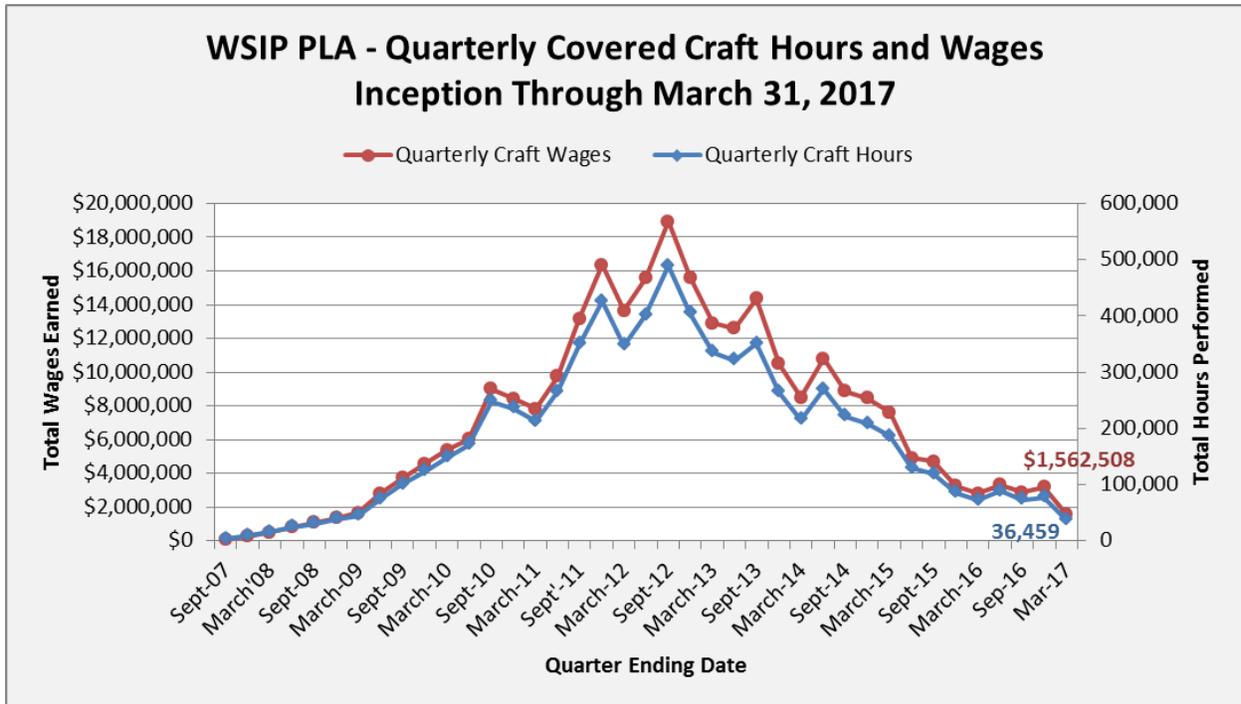
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending March 31, 2017; 13,084 workers on WSIP PLA-covered projects have achieved a cumulative total of 7,757,479 craft hours and \$301,562,880 in craft wages.

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

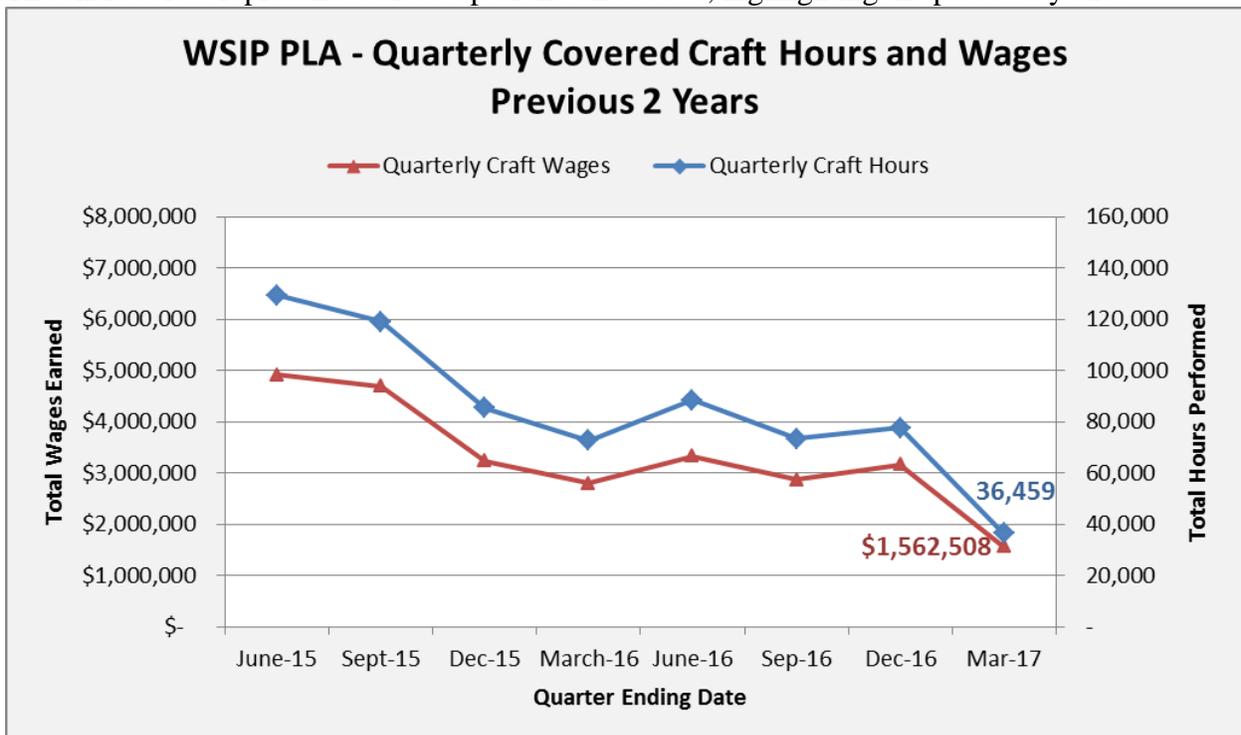


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



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



Craft Utilization on WSIP PLA-Covered Projects

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

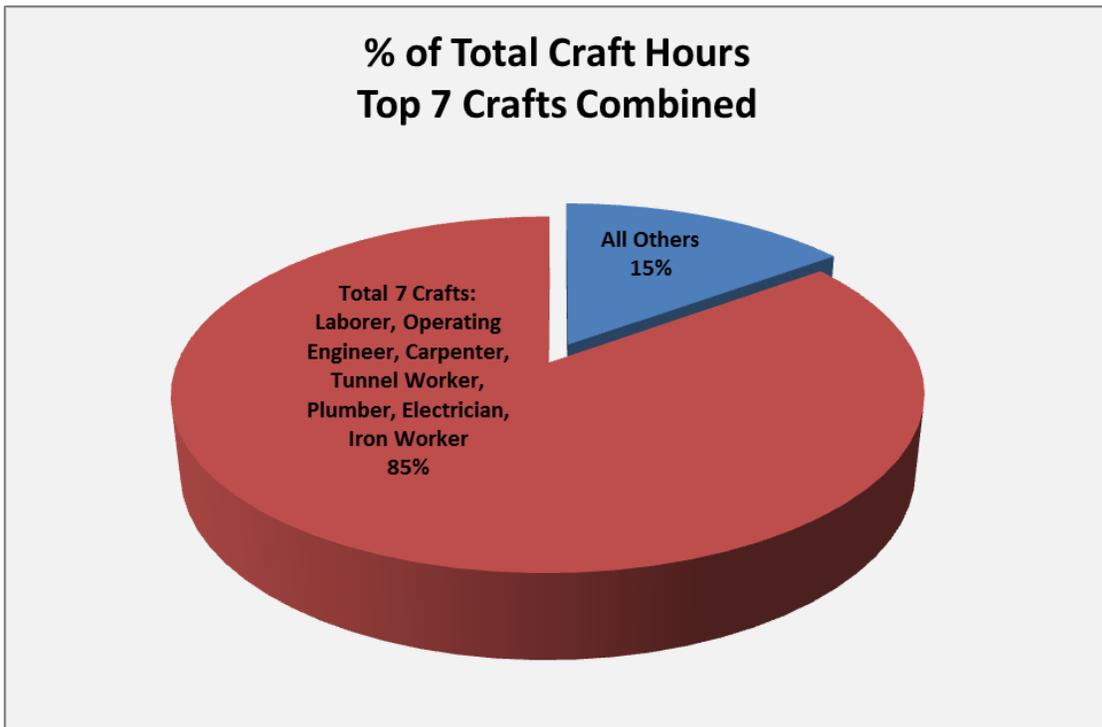
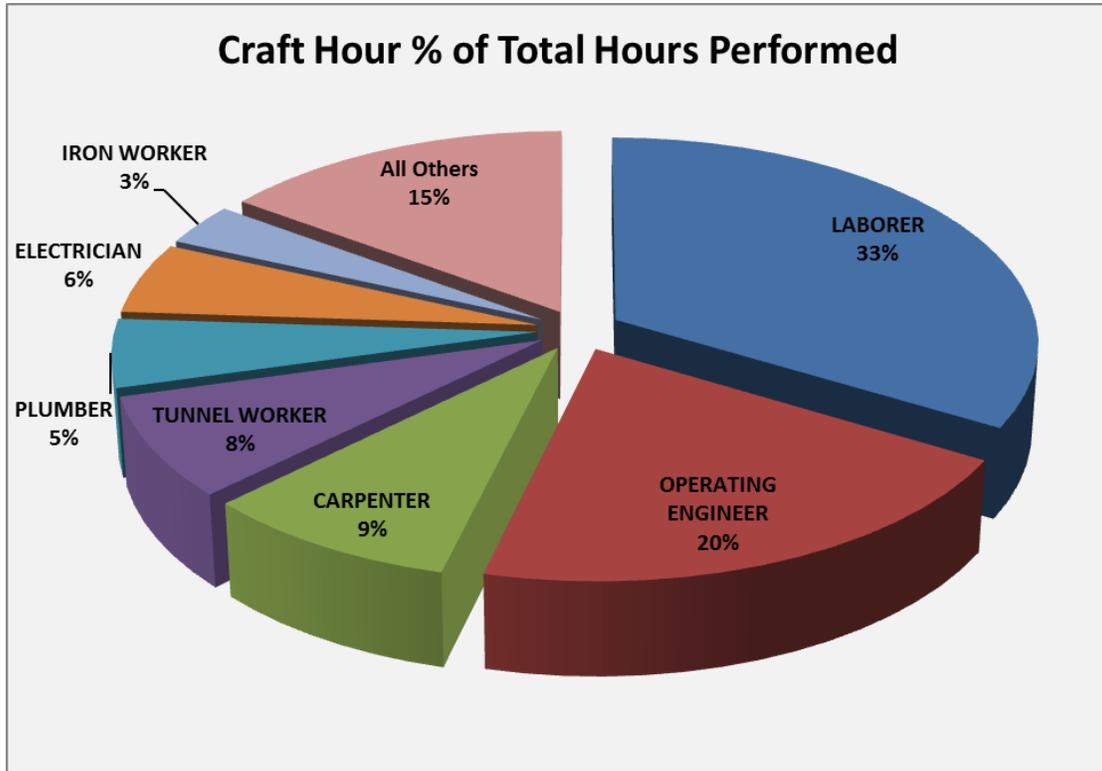
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed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

Sorted by Total Craft Hours

Cumulative Employment by Craft					
Inception Through March 31, 2017					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,597,882	\$ 78,653,569	33.5%	26.1%	1,249
OPERATING ENGINEER (Combined)	1,573,617	\$ 63,072,593	20.3%	20.9%	757
CARPENTER	688,164	\$ 28,611,643	8.9%	9.5%	331
TUNNEL WORKER (LABORER)	610,052	\$ 25,771,601	7.9%	8.5%	293
ELECTRICIAN	440,672	\$ 23,177,338	5.7%	7.7%	212
PLUMBER	414,164	\$ 19,318,579	5.3%	6.4%	199
IRON WORKER	256,415	\$ 8,661,793	3.3%	2.9%	123
Top 7 Sub-Total	6,580,965	\$ 247,267,115	84.8%	82.0%	3,164
PILE DRIVER (CARPENTER)	158,659	\$ 8,501,309	2.0%	2.8%	76
PAINTER	140,366	\$ 5,290,341	1.8%	1.8%	67
CEMENT MASON	119,255	\$ 4,142,154	1.5%	1.4%	57
BOILERMAKER-BLACKSMITH	118,008	\$ 6,210,151	1.5%	2.1%	57
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SUPERVISOR	64,960	\$ 2,592,823	0.8%	0.9%	31
ROOFER	49,936	\$ 1,697,261	0.6%	0.6%	24
FIELD SURVEYOR	20,285	\$ 809,355	0.3%	0.3%	10
SHEET METAL WORKER	15,303	\$ 729,428	0.2%	0.2%	7
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	0.2%	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	4,295	\$ 186,428	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
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
SHEET METAL WORKER (HVAC)	756	\$ 25,444	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMENT PAINTER (LABORER)	718	\$ 23,239	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROST INSULATOR	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
Remaining Apprenticeable Sub-Total	727,585	\$ 31,751,667	9.4%	10.5%	350
Total Non-Apprenticeable	448,929	\$ 22,544,097	5.8%	7.5%	216
Total WSIP-Covered by PLA	7,757,479	\$ 301,562,880	100.0%	100%	3,730

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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, 2017. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 70% of craft hours worked on PLA-covered projects.



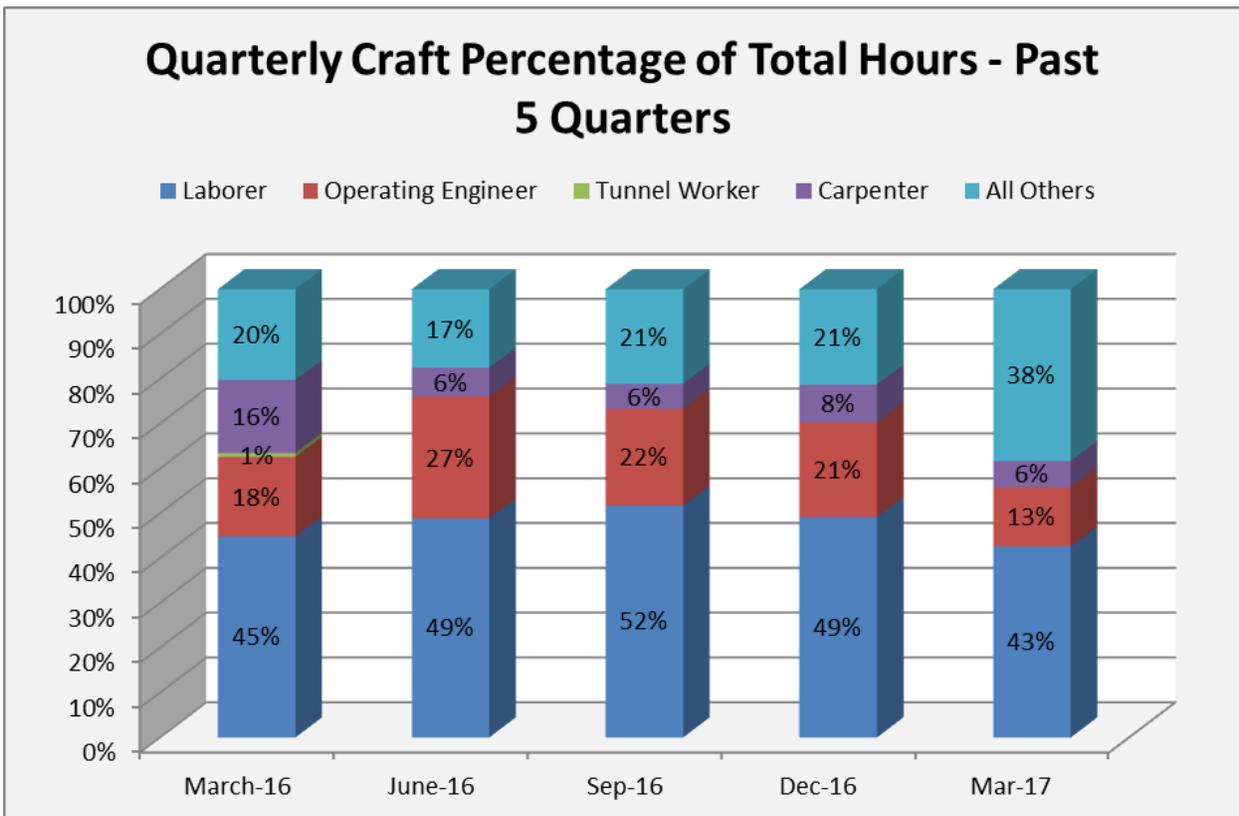
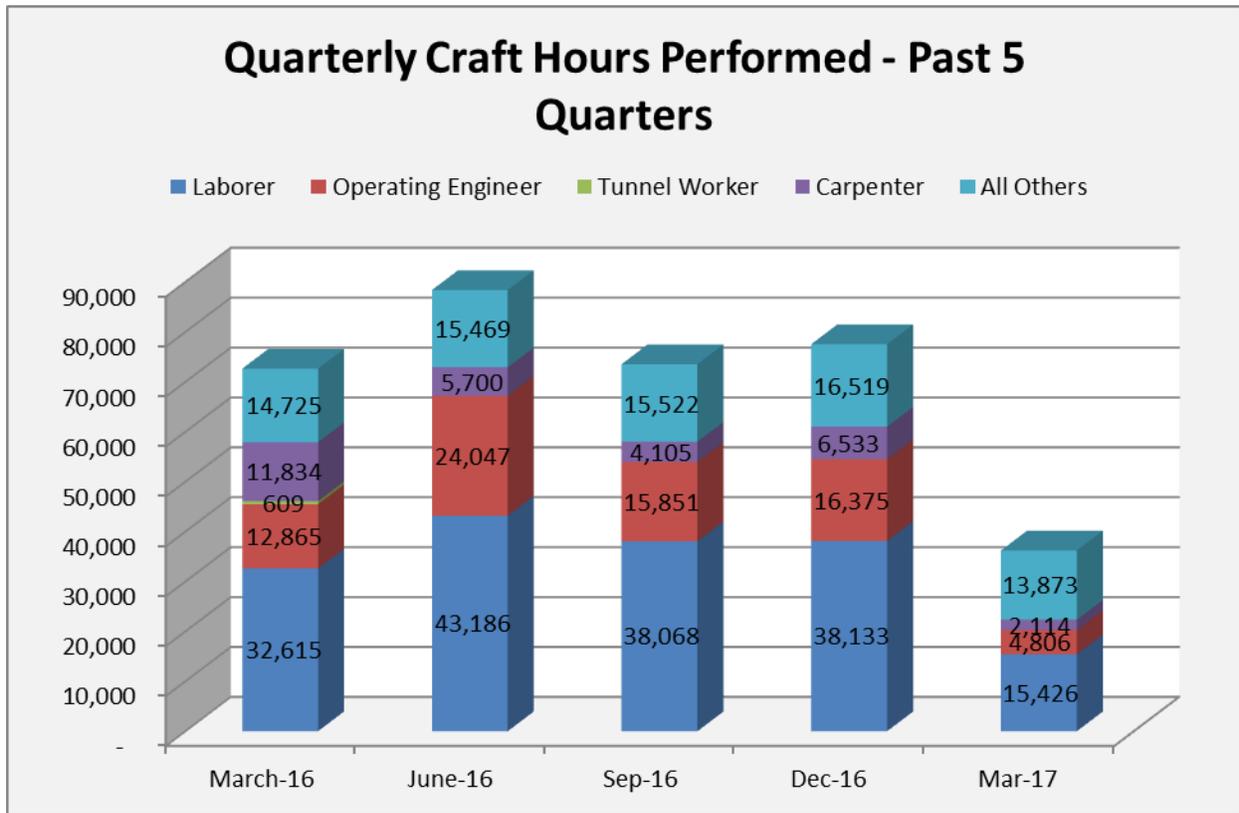
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 3-31-2017 Hours	Quarter Ending 3-31-2017 Wages
LABORER	2,597,882	\$ 78,653,569	15,426	\$ 524,033
OPERATING ENGINEER	528,946	\$ 19,839,109	1,700	\$ 73,888
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	990,548	\$ 40,965,294	3,107	\$ 151,807
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY WORK)	51,487	\$ 2,170,668		
OPERATING ENGINEER (SPECIAL SINGLE AND SHIFT RATE)	2,637	\$ 97,521		
OPERATING ENGINEER (COMBINED)	4,171,499	\$ 141,726,162	4,806	\$ 225,695
CARPENTER AND RELATED TRADES	688,164	\$ 28,611,643	2,114	\$ 96,547
TUNNEL WORKER (LABORER)	610,052	\$ 25,771,601	-	\$ -
ELECTRICIAN	440,672	\$ 23,177,338	8,304	\$ 446,307
PLUMBER	414,164	\$ 19,318,579	1,577	\$ 95,728
IRON WORKER	256,415	\$ 8,661,793	1,329	\$ 51,127
PILE DRIVER (CARPENTER)	158,659	\$ 8,501,309	-	\$ -
PAINTER	140,366	\$ 5,290,341	318	\$ 12,624
CEMENT MASON	119,255	\$ 4,142,154	32	\$ 1,124
BOILERMAKER-BLACKSMITH	118,008	\$ 6,210,151	48	\$ 4,848
BUILDING/CONSTRUCTION INSPECTOR AND FIELD	64,960	\$ 2,592,823	1,214	\$ 46,187
ROOFER	49,936	\$ 1,697,261	123	\$ 4,635
FIELD SURVEYOR	20,285	\$ 809,355	102	\$ 3,613
SHEET METAL WORKER	15,303	\$ 729,428	569	\$ 31,090
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	-	\$ -
BRICKLAYER, BLOCKLAYER	8,574	\$ 326,663	-	\$ -
ELECTRICAL UTILITY LINEMAN	6,797	\$ 417,708	-	\$ -
GLAZIER	4,295	\$ 186,428	-	\$ -
PLASTERER	3,750	\$ 132,027	-	\$ -
PLASTER TENDER	1,281	\$ 42,303	-	\$ -
BRICK TENDER	827	\$ 27,956	-	\$ -
SHEET METAL WORKER (HVAC)	756	\$ 25,444	259	\$ 8,285
PARKING AND HIGHWAY IMPROVEMENT PAINTER	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	-	\$ -
Total Apprenticable	7,308,550	\$ 279,018,782	36,219	\$ 1,027,809
Non-Apprenticeable				
TEAMSTER	127,246	\$ 5,802,429	174	\$ 6,292
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION)	97,313	\$ 7,076,419	31	\$ 2,706
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	94,813	\$ 4,399,651	36	\$ 1,668
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HIGHWAY)	79,075	\$ 3,551,621	-	\$ -
ASBESTOS REMOVAL WORKER (LABORER)	17,057	\$ 431,301	-	\$ -
TUNNEL/UNDERGROUND (OPERATING ENGINEER-HIGHWAY)	13,146	\$ 582,242	-	\$ -
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	-	\$ -
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	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER)	282	\$ 12,787	-	\$ -
PARKING AND HIGHWAY IMPROVEMENT PAINTER	265	\$ 8,680	-	\$ -
IRONWORKER (DB)	80	\$ 2,772	-	\$ -
TEAMSTER (SPECIAL SINGLE SHIFT RATE)	11	\$ 291	-	\$ -
Total Non-Apprenticeable	448,929	\$ 22,544,097	240	\$ 10,666
Total Apprenticable	7,308,550	\$ 279,018,782	36,219	\$ 1,551,842
Total WSIP PLA	7,757,479	\$ 301,562,880	36,459	\$ 1,562,508

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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.

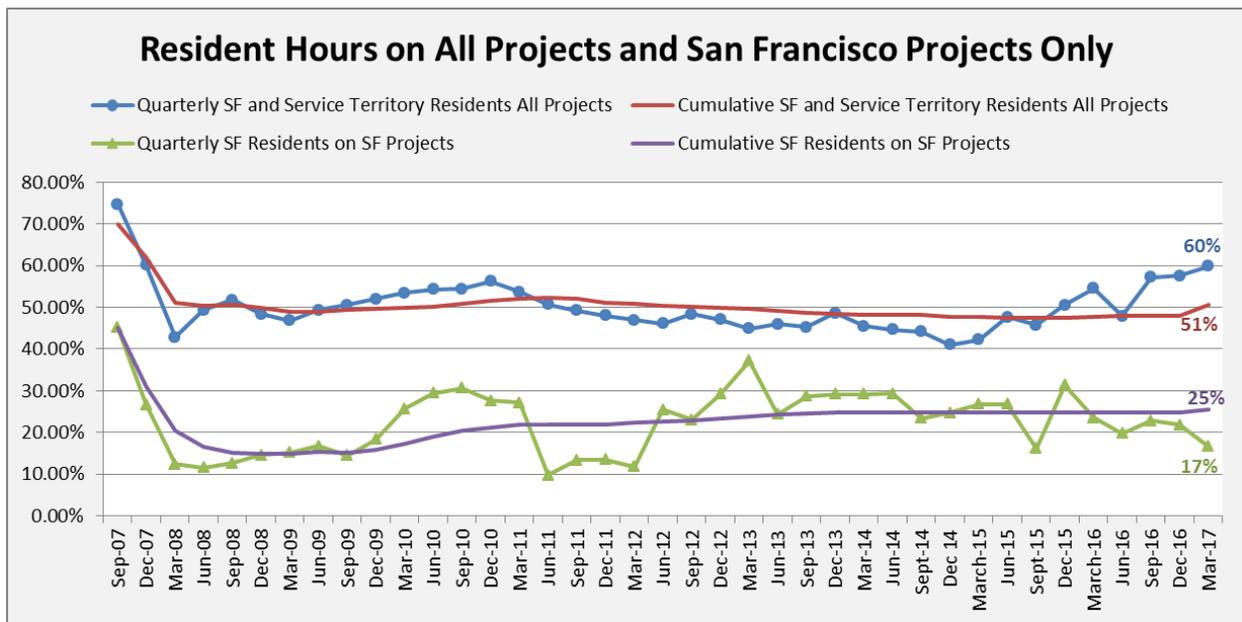


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Worker Residence on the WSIP PLA

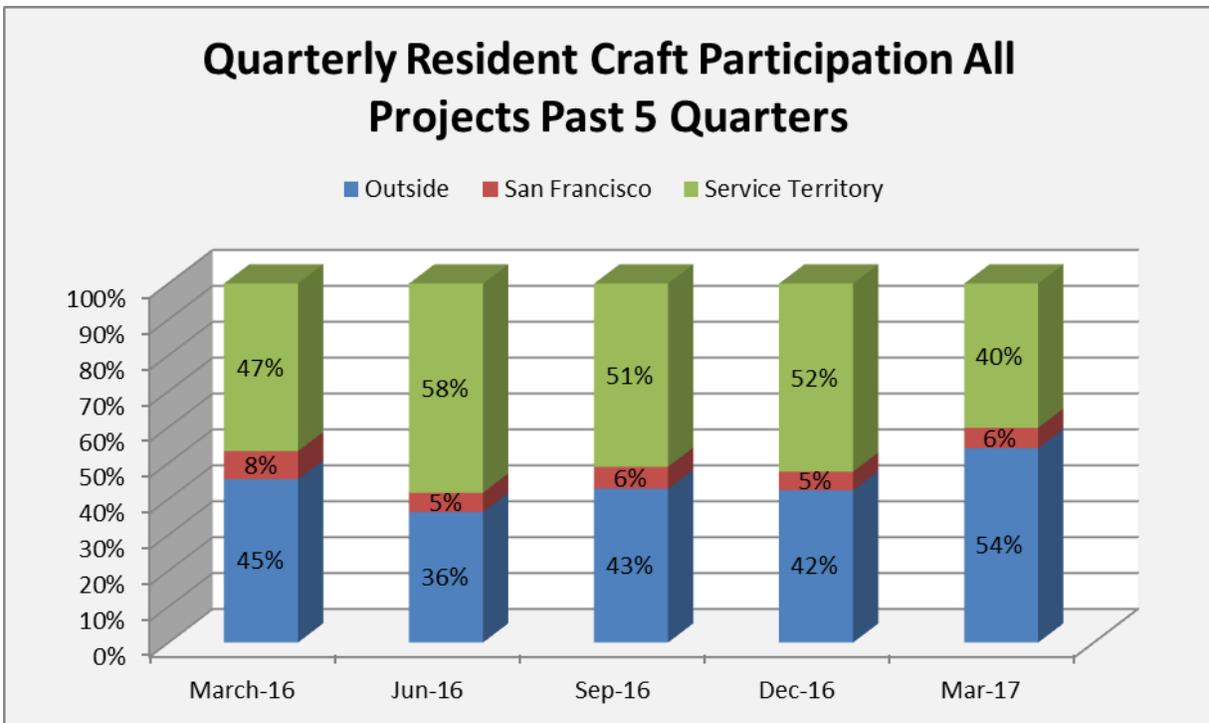
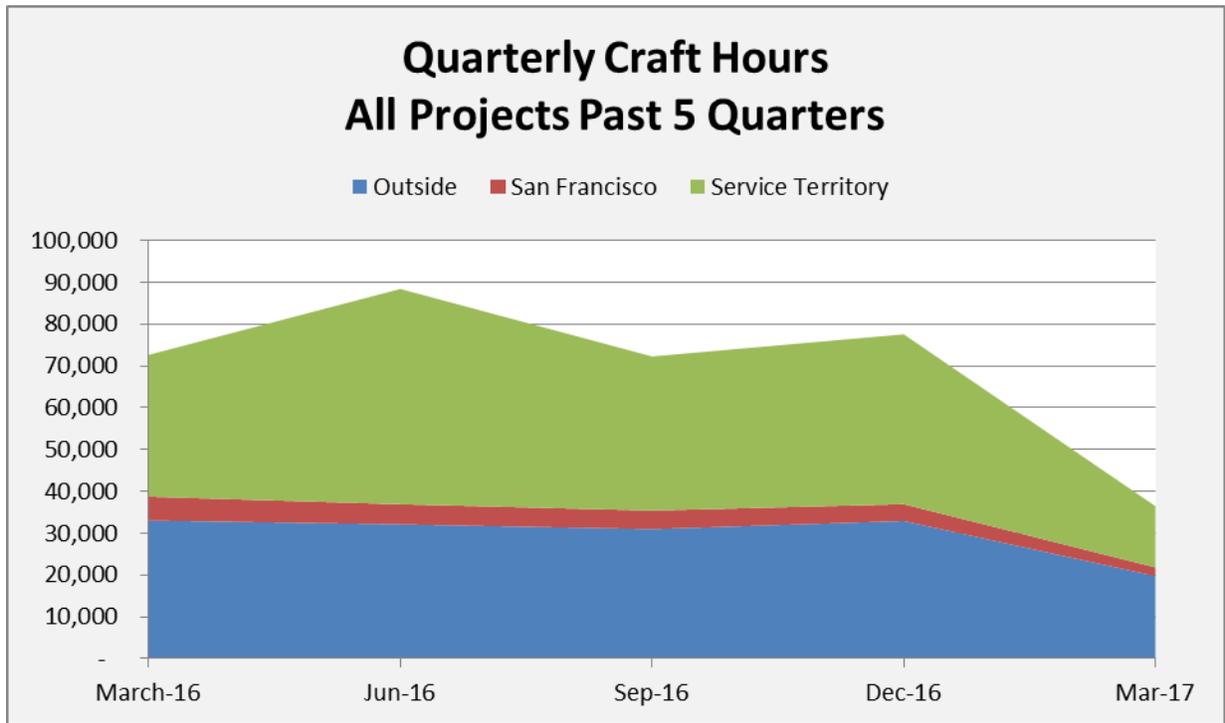
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

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, 2017.



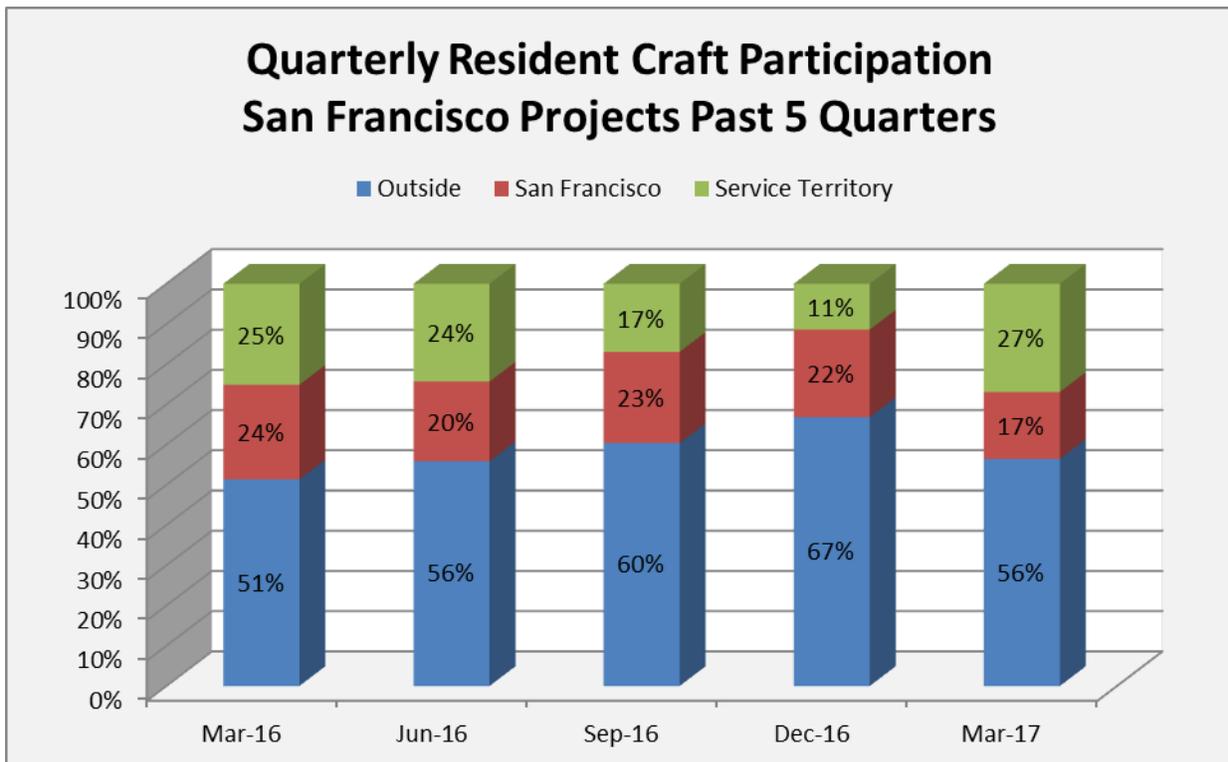
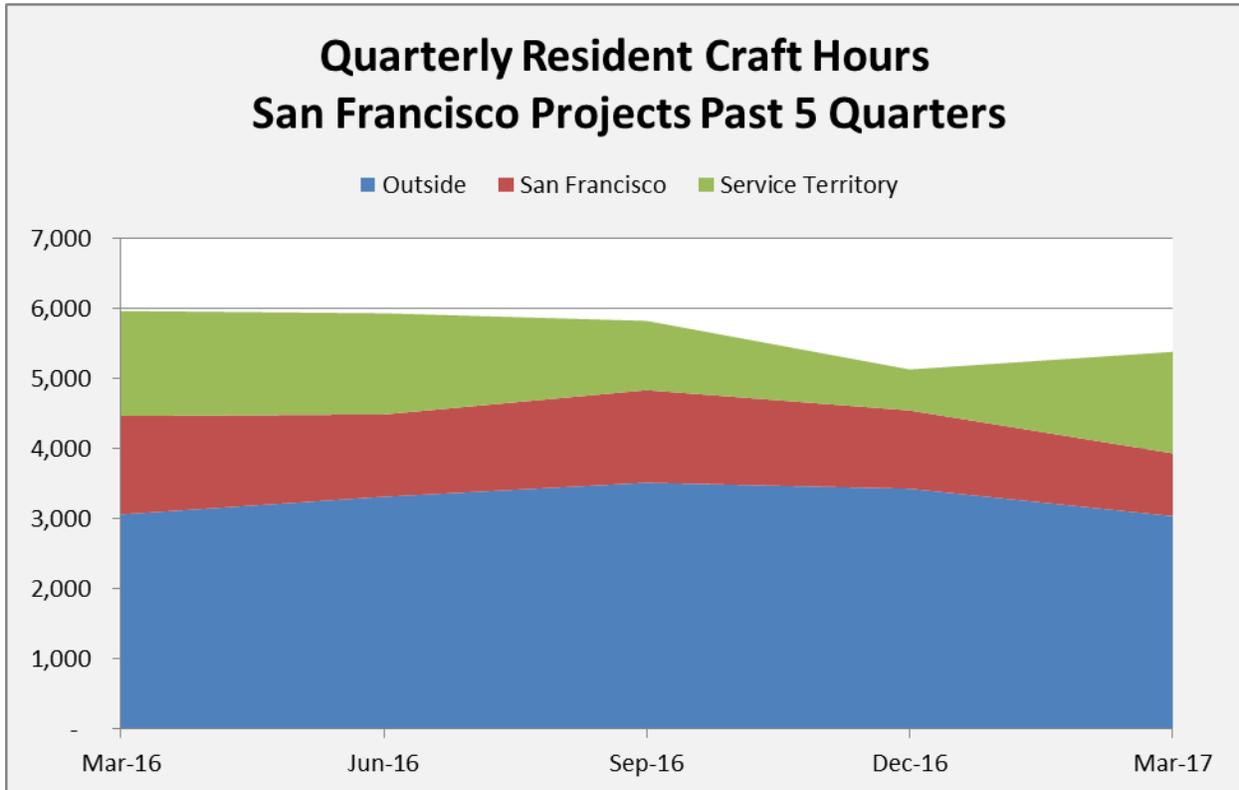
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Residence on ALL WSIP PLA Projects - Charted are 53 of the 53 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



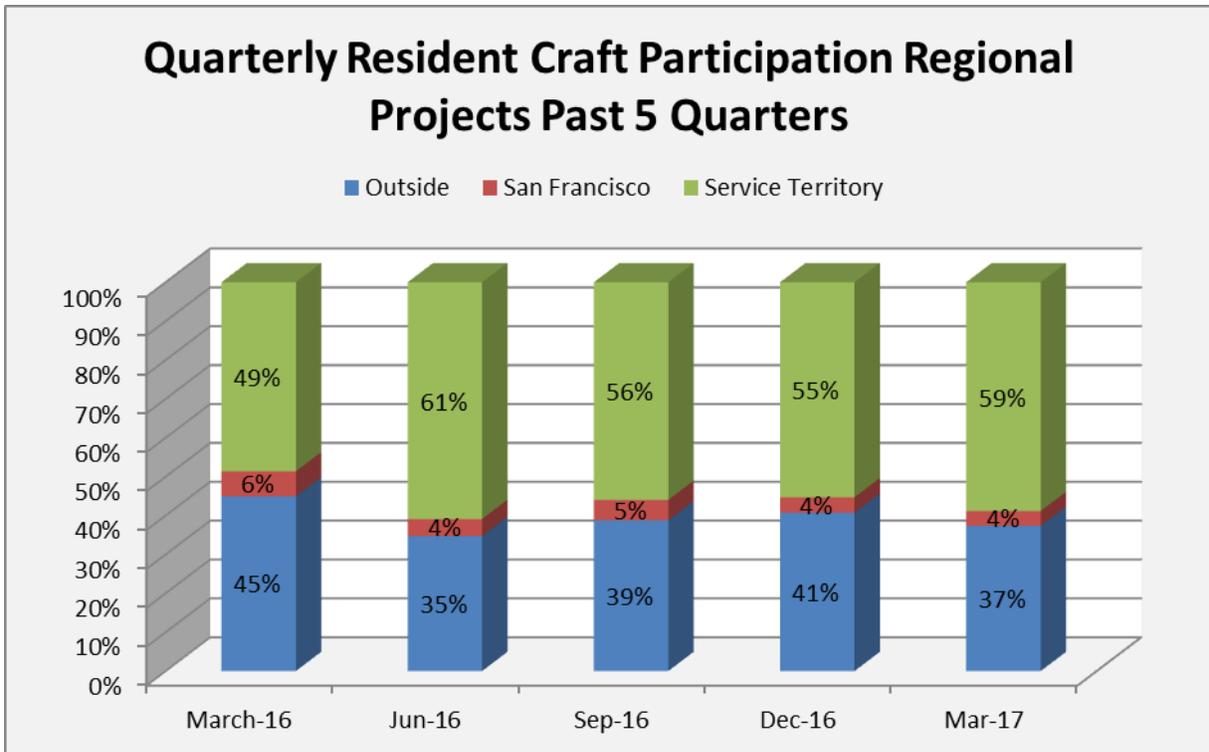
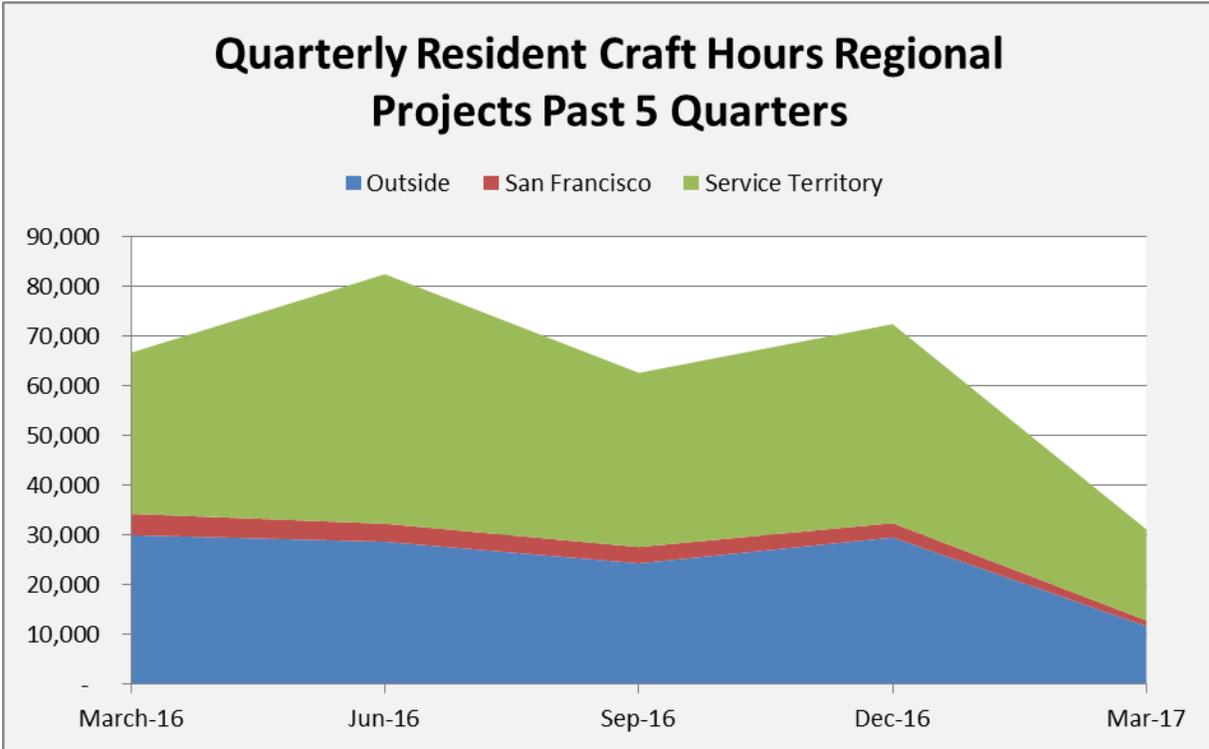
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Residence on San Francisco-located WSIP PLA Projects - Charted are the 15 projects covered by the WSIP PLA located within San Francisco only.



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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

WSIP-PLA Employment by Top 20 Counties of Residence					
Inception Through March 31, 2017					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,408,637	\$ 51,552,337	18.2%	2,664	677
Contra Costa	1,022,476	\$ 39,323,102	13.2%	1,766	492
San Mateo	774,772	\$ 30,784,100	10.0%	1,203	372
San Joaquin	716,551	\$ 26,407,013	9.2%	1,119	344
San Francisco	541,028	\$ 20,046,504	7.0%	1,114	260
Santa Clara	442,526	\$ 17,950,925	5.7%	1,184	213
Solano	386,383	\$ 15,161,458	5.0%	734	186
Stanislaus	338,827	\$ 12,240,268	4.4%	567	163
Sacramento	327,292	\$ 12,798,920	4.2%	542	157
Butte	201,762	\$ 7,929,964	2.6%	114	97
Sonoma	164,533	\$ 6,537,547	2.1%	308	79
Tuolumne	90,138	\$ 3,448,414	1.2%	91	43
Calaveras	89,770	\$ 3,925,510	1.2%	77	43
El Dorado	77,426	\$ 3,169,583	1.0%	82	37
Placer	77,082	\$ 3,061,197	1.0%	122	37
Yolo	67,348	\$ 2,598,597	0.9%	89	32
Los Angeles	66,849	\$ 2,853,470	0.9%	138	32
Clark	62,468	\$ 2,761,891	0.8%	66	30
Shasta	60,729	\$ 2,658,241	0.8%	51	29
Napa	55,313	\$ 2,430,259	0.7%	73	27
Top 20 Counties by Hours	6,971,910	\$ 267,639,300	89.9%	12,104	3,352
All Other Counties	785,569	\$ 33,923,580	10.1%	980	378
WSIP-PLA Total	7,757,479	\$ 301,562,880	100.0%	13,084	3,730

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San Francisco Residents by Zip Code

Sorted by Total Craft Hours

Employment by San Francisco Zip Code					
Inception Through March 31, 2017					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	92,172	\$ 3,209,632	17.0%	188	44
94124	85,262	\$ 3,190,065	15.8%	225	41
94110	79,561	\$ 2,686,201	14.7%	161	38
94116	64,292	\$ 3,116,437	11.9%	73	31
94134	42,184	\$ 1,284,553	7.8%	108	20
94122	28,856	\$ 1,273,122	5.3%	56	14
94121	24,593	\$ 970,150	4.5%	43	12
94103	24,025	\$ 738,458	4.4%	31	12
94127	19,459	\$ 687,464	3.6%	20	9
94102	8,622	\$ 383,703	1.6%	19	4
94132	8,483	\$ 333,470	1.6%	31	4
94118	8,331	\$ 408,224	1.5%	19	4
94117	7,957	\$ 200,923	1.5%	17	4
94131	7,789	\$ 293,784	1.4%	20	4
94107	7,650	\$ 285,395	1.4%	20	4
94133	5,322	\$ 189,070	1.0%	8	3
94114	4,849	\$ 188,038	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
Total	541,028	\$ 20,046,504	100%	1,142	260
WSIP-PLA Total	7,757,479	\$ 301,562,880	-	13,084	3,730

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Residence by Craft

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through March 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 HIGHWAY)	990,548	17,734	409,454	563,360	1.8%	41.3%	56.9%
CARPENTER AND RELATED TRADES	688,164	77,214	299,081	311,870	11.2%	43.5%	45.3%
TUNNEL WORKER (LABORER)	610,052	11,102	249,080	349,870	1.8%	40.8%	57.4%
OPERATING ENGINEER	528,946	45,944	206,300	276,702	8.7%	39.0%	52.3%
ELECTRICIAN	440,672	23,637	259,808	157,228	5.4%	59.0%	35.7%
PLUMBER	414,164	80,873	143,807	189,484	19.5%	34.7%	45.8%
IRON WORKER	256,415	19,657	96,571	140,188	7.7%	37.7%	54.7%
PILE DRIVER (CARPENTER)	158,659	6,526	44,108	108,026	4.1%	27.8%	68.1%
PAINTER	140,366	8,817	18,311	113,239	6.3%	13.1%	80.7%
CEMENT MASON	119,255	5,703	55,719	57,833	4.8%	46.7%	48.5%
BOILERMAKER-BLACKSMITH	118,008	48	27,178	90,781	0.0%	23.0%	76.9%
BUILDING/CONSTRUCTION INSPECTOR AND FINISHER	64,960	3,943	11,742	49,276	6.1%	18.1%	75.9%
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY)	51,487	499	8,554	42,434	1.0%	16.6%	82.4%
ROOFER	49,936	3,077	28,655	18,204	6.2%	57.4%	36.5%
FIELD SURVEYOR	20,285	1,342	4,131	14,812	6.6%	20.4%	73.0%
SHEET METAL WORKER	15,303	1,229	9,249	4,826	8.0%	60.4%	31.5%
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%
GLAZIER	4,295	1,018	1,402	1,875	23.7%	32.7%	43.7%
PLASTERER	3,750	1,270	958	1,523	33.9%	25.5%	40.6%
OPERATING ENGINEER (SPECIAL SINGLE AND DOUBLE SHIFT)	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%
BRICK TENDER	827	287	78	462	34.7%	9.4%	55.9%
SHEET METAL WORKER (HVAC)	756	277	365	114	36.6%	48.3%	15.1%
PARKING AND HIGHWAY IMPROVEMENT PAINTER	718	-	384	334	0.0%	53.5%	46.5%
ASBESTOS WORKER, HEAT AND FROST INSULATION	507	-	268	239	0.0%	52.9%	47.1%
CARPET, LINOLEUM, SOFT FLOOR LAYER	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%
Total Apprenticeable	4,710,668	312,642	1,885,694	2,512,332	6.6%	40.0%	53.3%
LABORER	2,597,880	196,188	1,192,229	1,209,463	7.6%	45.9%	46.6%
Non-Apprenticeable							
TEAMSTER	127,246	9,403	70,558	47,285	7.4%	55.5%	37.2%
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION)	97,313	16,968	64,543	15,802	17.4%	66.3%	16.2%
OPERATING ENGINEER (HEAVY AND HIGHWAY)	94,813	-	45,091	49,722	0.0%	47.6%	52.4%
TUNNEL/UNDERGROUND (OPERATING ENGINEER)	79,075	70	44,828	34,177	0.1%	56.7%	43.2%
ASBESTOS REMOVAL WORKER (LABORER)	17,057	887	2,270	13,900	5.2%	13.3%	81.5%
TUNNEL/UNDERGROUND (OPERATING ENGINEER)	13,146	-	9,309	3,837	0.0%	70.8%	29.2%
WATER WELL DRILLER	12,313	-	7,536	4,777	0.0%	61.2%	38.8%
LANDSCAPE MAINTENANCE LABORER	11,691	360	1,110	221	21.3%	65.6%	13.1%
TREE TRIMMER (HIGH VOLTAGE LINE CLEARANCE)	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%
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%
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER)	282	-	282	-	0.0%	100.0%	0.0%
PARKING AND HIGHWAY IMPROVEMENT PAINTER	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%
Total Non-Apprenticeable	448,929	27,852	249,311	171,766	6.2%	55.5%	38.3%
Total WSIP PLA	7,757,479	536,682	3,327,237	3,893,560	6.9%	42.9%	50.2%

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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, 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	1,047,096	4,861	432,929	609,307	0.5%	41.3%	58.2%
WD-2596 - Harry Tracy Water Treatment Plant Long-Term	1,012,776	63,395	381,905	567,476	6.3%	37.7%	56.0%
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 Upgrade - Bay	574,410	18,400	332,089	223,921	3.2%	57.8%	39.0%
WD-2601 - Crystal Springs / San Andreas Transmission S	488,511	25,322	193,949	269,240	5.2%	39.7%	55.1%
WD-2582 - Sunol Valley Water Treatment Plant and Treat	462,447	11,320	202,938	248,189	2.4%	43.9%	53.7%
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Reach	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 Reache	208,255	14,163	86,775	107,317	6.8%	41.7%	51.5%
WD-2539 - University Mound Reservoir North Basin Seism	187,032	50,004	44,847	92,181	26.7%	24.0%	49.3%
WD-2627R - Sutro Reservoir Rehabilitation and Seismic U	154,365	49,225	39,318	65,822	31.9%	25.5%	42.6%
HH-935C - San Joaquin Pipeline System - Eastern Segme	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 Division Pipeline Nos.	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 Replacement Pr	127,805	34,923	35,415	57,467	27.3%	27.7%	45.0%
WD-2668 - Regional Groundwater Storage and Recovery	127,654	20,413	67,941	39,300	16.0%	53.2%	30.8%
WD-2498 - New Crystal Springs Bypass (Polhemus) Tunn	117,860	6,825	61,288	49,748	5.8%	52.0%	42.2%
WD-2652 - Bioregional Habitat Restoration, San Antonio C	110,655	2,810	49,991	57,854	2.5%	45.2%	52.3%
WD-2548 - Lake Merced Pump Station Essential Upgrade	101,050	23,185	27,768	50,098	22.9%	27.5%	49.6%
HH-935B - San Joaquin Pipeline System - Western Segm	100,492	426	45,319	54,747	0.4%	45.1%	54.5%
WD-2591 - Lower Crystal Springs Dam Improvements	98,656	5,022	57,594	36,040	5.1%	58.4%	36.5%
HH-935A - San Joaquin Pipeline System - Crossovers	84,483	158	47,626	36,699	0.2%	56.4%	43.4%
WD-2513 - San Andreas Pipeline No.3 Installation Project	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 Retrofit an	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 Rehabili	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 Pond,	44,018	7,286	11,135	25,597	16.6%	25.3%	58.2%
WD-2564 - Harry Tracy Water Treatment Plant - Short Ter	43,049	7,220	12,879	22,950	16.8%	29.9%	53.3%
WD-2621R - San Francisco Groundwater Supply Well Sta	41,845	9,215	10,165	22,466	22.0%	24.3%	53.7%
WD-2729 - Fish Passage Facilities Within The Alameda C	39,322	387	14,817	24,119	1.0%	37.7%	61.3%
WD-2469 - Forest Knolls Pump Station and Storage Tank	26,553	3,844	8,582	14,127	14.5%	32.3%	53.2%
WD-2666 - Bioregional Habitat Restoration, Sheep Camp	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 Compensation, S	22,569	557	11,609	10,403	2.5%	51.4%	46.1%
WD-2529 - Noe Valley Transmission Main - Phase II	22,511	3,918	7,931	10,662	17.4%	35.2%	47.4%
WD-2665 - Bay Division Pipeline Reliability Upgrade Proie	21,967	341	7,653	13,974	1.6%	34.8%	63.6%
WD-2556 - Baden and San Pedro Valve Lot Improvements	19,939	4,570	10,634	4,735	22.9%	53.3%	23.7%
WD-2622 - San Francisco Groundwater Supply Pipeline	17,782	4,360	3,453	9,969	24.5%	19.4%	56.1%
WD-2566 - San Antonio Pump Station Upgrades Project	14,916	101	12,105	2,711	0.7%	81.1%	18.2%
WD-2654R - Peninsula Vegetation Removal	13,902	2,618	4,649	6,635	18.8%	33.4%	47.7%
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 Locations	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 Recovery P	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2589 - Supervisory Control and Data Acquisition SCA	1,498	113	242	1,144	7.6%	16.1%	76.3%
Total WSIP PLA	7,757,479	536,682	3,327,237	3,893,560	6.9%	42.9%	50.2%

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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.

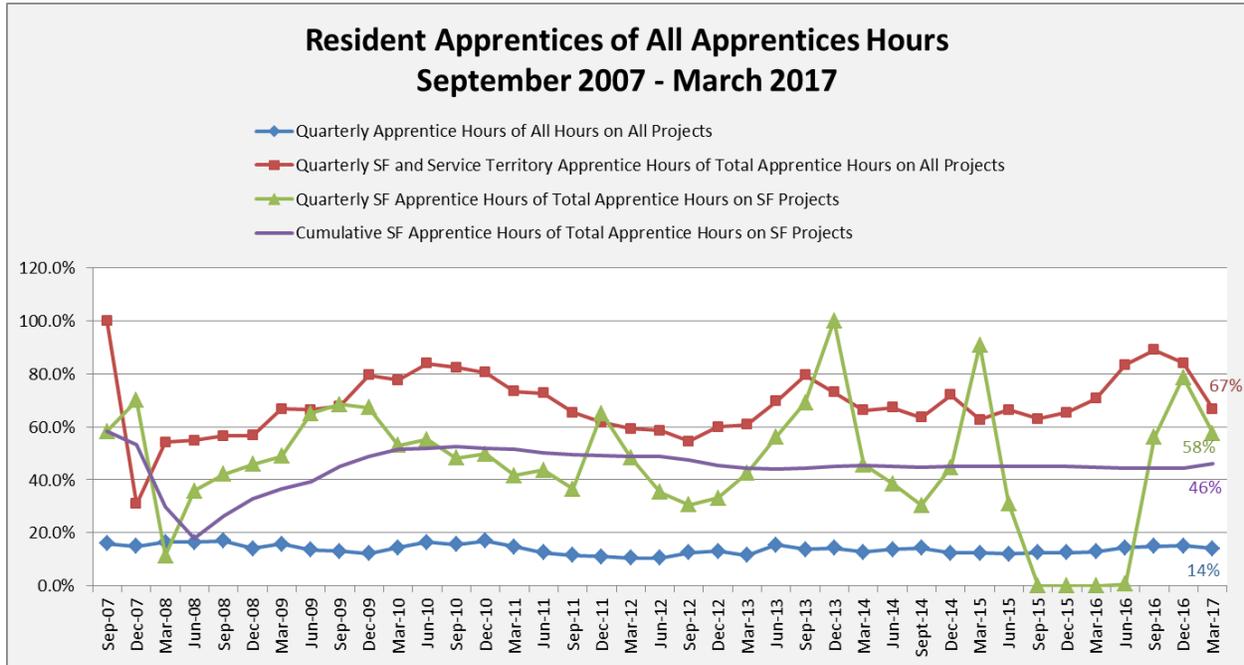
Through the end of the current quarter, 13.4% of craft hours in apprenticeable trades have been worked by apprentices. 17% of apprentice hours were worked by San Francisco residents and 55% were worked by residents of the Regional Service Territory, or 72% combined.

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 WO	990,548	20,663	3,912	11,459	5,293	2.1%	0.4%	1.2%	18.9%	55.5%	25.6%
A - CARPENTER AND RELATED TRADES	688,164	107,781	27,673	49,991	30,117	15.7%	4.0%	7.3%	25.7%	46.4%	27.9%
A - TUNNEL WORKER (LABORER)	610,052	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - OPERATING ENGINEER	528,946	167,946	24,927	75,080	67,940	31.8%	4.7%	14.2%	14.8%	44.7%	40.5%
A - ELECTRICIAN	440,672	81,120	8,736	56,734	15,650	18.4%	2.0%	12.9%	10.8%	69.9%	19.3%
A - PLUMBER	414,164	113,996	32,748	56,062	25,185	27.5%	7.9%	13.5%	28.7%	49.2%	22.1%
A - IRON WORKER	256,415	55,463	12,179	23,593	19,692	21.6%	4.7%	9.2%	22.0%	42.5%	35.5%
A - PILE DRIVER (CARPENTER)	158,659	12,142	4,451	3,464	4,228	7.7%	2.8%	2.2%	36.7%	28.5%	34.8%
A - PAINTER	140,366	23,898	1,809	6,528	15,562	17.0%	1.3%	4.7%	7.6%	27.3%	65.1%
A - CEMENT MASON	119,255	5,491	3,608	731	1,152	4.6%	3.0%	0.6%	65.7%	13.3%	21.0%
A - BOILERMAKER-BLACKSMITH	118,008	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - BUILDING/CONSTRUCTION INSPECTOR AND FIELD S	64,960	2,017	5	1,242	770	3.1%	0.0%	1.9%	0.2%	61.6%	38.2%
A - PILE DRIVER (OPERATING ENGINEER - HEAVY AND	51,487	30	-	-	30	0.1%	0.0%	0.0%	0.0%	0.0%	100.0%
A - ROOFER	49,936	12,501	1,566	6,249	4,686	25.0%	3.1%	12.5%	12.5%	50.0%	37.5%
A - FIELD SURVEYOR	20,285	574	8	67	499	2.8%	0.0%	0.3%	1.4%	11.7%	86.9%
A - SHEET METAL WORKER	15,303	1,736	16	931	789	11.3%	0.1%	6.1%	0.9%	53.6%	45.5%
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	4,295	564	402	20	142	13.1%	9.4%	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 SEC	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 - BRICK TENDER	827	24	24	-	-	2.9%	2.9%	0.0%	100.0%	0.0%	0.0%
A - SHEET METAL WORKER (HVAC)	756	592	277	235	80	78.3%	36.6%	31.1%	0.0%	0.0%	0.0%
A - PARKING AND HIGHWAY IMPROVEMENT PAINTER (718	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - ASBESTOS WORKER, HEAT AND FROST INSULATO	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	4,710,668	613,717	122,656	295,645	195,416	13.0%	2.6%	6.3%	20.0%	48.2%	31.8%
A - LABORER	2,597,880	364,253	43,050	247,265	73,938	14.0%	1.7%	9.5%	11.8%	67.9%	20.3%
A-Operating Engineer (COMBINED)	1,573,617	189,801	28,838	87,585	73,378	12.1%	1.8%	5.6%	15.2%	46.1%	38.7%
Total Apprenticeable	7,308,550	977,969	165,705	542,911	269,354	13.4%	2.3%	7.4%	16.9%	55.5%	27.5%
Total Non-Apprenticeable	448,929	-	-	-	-	-	-	-	-	-	-
Total WSIP - Covered by PLA	7,757,479	-	-	-	-	-	-	-	-	-	-

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For the three months ending March 31, 2017, 58% 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.



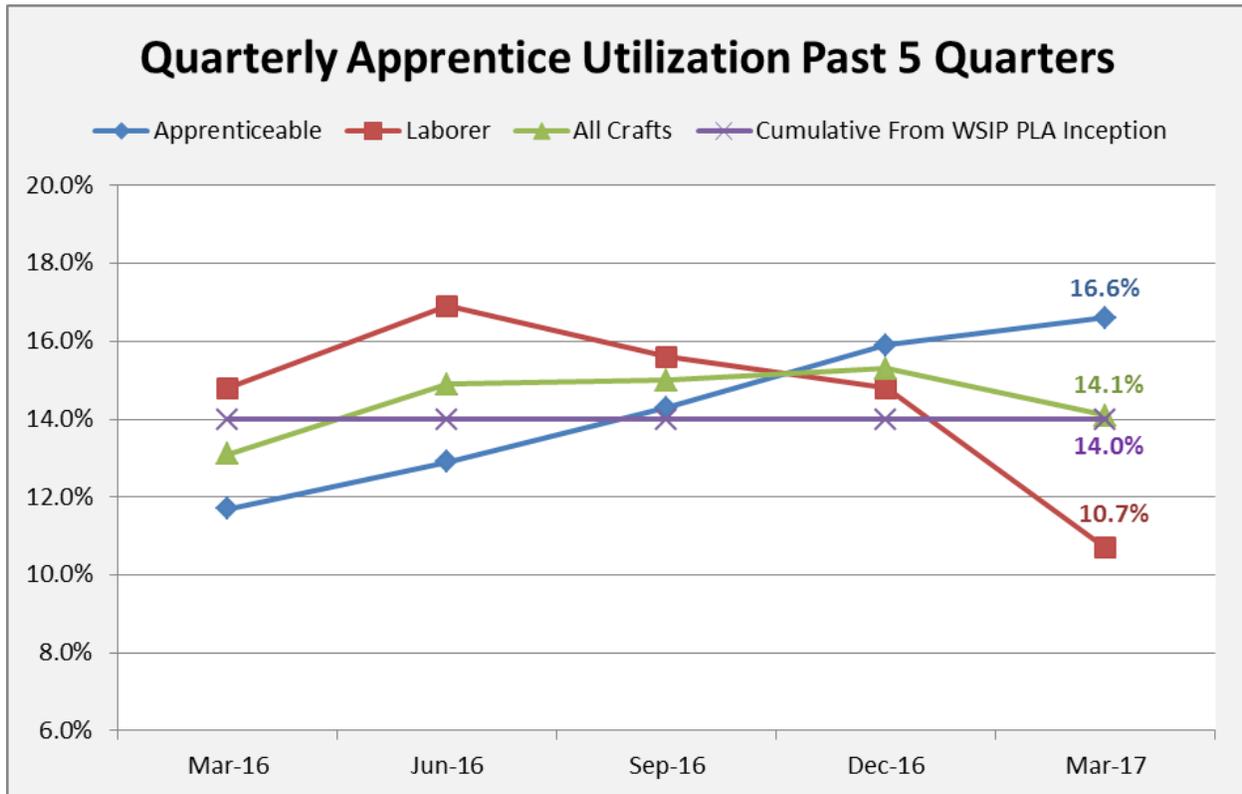
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 14%. This is slightly higher than the 13.4% mentioned in the *Apprentice 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, 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%
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-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-2641R - Habitat Reserve	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
DB-116 - Tesla Treatment Fac	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
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%
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-2552 - Alameda Siphon M	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
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-2668 - Regional Groundw	127,654	82,553	876	44,224	126,778	15,619	5,726	21,345	18.9%	12.9%	16.8%
WD-2640 - Bioregional Habita	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
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-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-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-2573 - Pulgas Balancing	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
HH-914R - Roselle Crossover	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
WD-2582 - Sunol Valley Wate	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 Wate	1,012,776	673,586	40,826	298,364	971,950	108,222	35,995	144,217	16.1%	12.1%	14.8%
WD-2600 - Regional Groundw	6,088		4,027	2,061	2,061		296	296	0.0%	14.3%	14.3%
WD-2627R - Suto Reservoir	154,365	77,214	8,900	68,252	145,465	15,391	5,248	20,639	19.9%	7.7%	14.2%
WD-2551 - Calaveras Dam Re	1,047,096	590,745	29,254	427,098	1,017,843	66,647	77,134	143,781	11.3%	18.1%	14.1%
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-2504 - Stanford Heights R	74,300	40,450		33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2531 - Bay Division Pipe	574,410	161,855	335,566	76,998	238,844	13,883	17,719	31,602	8.6%	23.0%	13.2%
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-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-2621R - San Francisco C	41,845	25,125		16,720	41,845	3,373	1,774	5,147	13.4%	10.6%	12.3%
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-935C - San Joaquin Pipe	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2729 - Fish Passage Fac	39,322	19,957	3,525	15,841	35,798	2,833	1,292	4,125	14.2%	8.2%	11.5%
WD-2601 - Crystal Springs / S	488,511	300,755	57,401	130,355	431,111	37,805	10,835	48,640	12.6%	8.3%	11.3%
WD-2469 - Forest Knolls Pum	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
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	72,283	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
HH-935A - San Joaquin Pipe	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935B - San Joaquin Pipe	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2501 - Alemany Pump St	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
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-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-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-2654R - Peninsula Veget	13,902	2,276		11,626	13,902	8	1,236	1,244	0.4%	10.6%	9.0%
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-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-2581 - New Irvington Tunn	730,584	546,878	99,798	83,908	630,786	31,860	19,891	51,750	5.8%	23.7%	8.2%
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-2589 - Supervisory Contr	1,498	728		771	1,498	115		115	15.8%	0.0%	7.7%
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-2543 - North University M	53,265	14,383.00	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2511 - Standby Power Fa	11,275	9,046		2,230	11,275	626		626	6.9%	0.0%	5.6%
WD-2529 - Noe Valley Transp	22,511	6,021	2,067	14,423	20,444		1,133	1,133	0.0%	7.9%	5.5%
WD-2564 - Harry Tracy Wate	43,049	22,612	80	20,358	42,969	2,089		2,089	9.2%	0.0%	4.9%
WSIP - Covered by PLA (50	7,757,479	4,387,521	772,246	2,597,712	6,985,233	613,719	364,253	977,971	14.0%	14.0%	14.0%

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending March 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 4.1%, the Apprenticeable trades increased by 0.7% , and the Laborer and Apprenticeable crafts combined (All Crafts) show a decrease of 1.2%. However, the overall cumulative percentage has remained the same.



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Jobs Training and Opportunities Program (JTOP)

As of March 31, 2017, the SFPUC and City staff has referred 628 apprentices and 354 journeypersons to WSIP PLA-covered projects from our community-based partners in Job Training Programs and through the Labor Unions. These 982 individuals represent 11.8% of the total hours worked and 8.9% of the wages earned.*

WSIP-PLA Referred Workers By Job Training and Opportunities Program						
Inception Through March 31, 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	2.9%	3.9%	3.7%
CityBuild Referral Services	75	34,596	\$ 901,934	4.3%	3.5%	3.5%
Cypress Mandela Training Center, Inc.	51	74,903	\$ 1,810,302	2.9%	7.7%	7.1%
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	73	90,843	\$ 2,168,533	4.2%	9.3%	8.5%
Northern California Construction and Training, Inc.	7	7,256	\$ 158,831	0.4%	0.7%	0.6%
San Joaquin County Office of Ed. YouthBuild	10	16,290	\$ 351,531	0.6%	1.7%	1.4%
SFPUC	62	55,468	\$ 1,446,942	3.5%	5.7%	5.7%
Sponser	6	30,815	\$ 832,884	0.3%	3.2%	3.3%
Union	291	218,809	\$ 5,624,305	16.6%	22.4%	22.1%
Total Referred Apprentice Workers	628	574,840	\$ 14,449,979	35.9%	58.8%	56.6%
Non-Referred Apprentices	1,122	403,132	\$ 11,080,740	64.1%	41.2%	43.4%
Total Apprentices	1,750	977,971	\$ 25,530,719	100.0%	100.0%	100.0%

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	81	53,037	\$ 2,250,608	0.8%	0.8%	0.8%
Cypress Mandela Training Center, Inc.	12	13,042	\$ 433,684	0.1%	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	17,699	\$ 550,640	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	44,412	\$ 1,536,550	0.3%	0.7%	0.6%
Sponser	2	5,706	\$ 213,580	0.0%	0.1%	0.1%
Union	197	194,058	\$ 7,297,157	1.9%	2.9%	2.6%
Total Referred Journeyman Workers	354	338,352	\$ 12,616,224	3.3%	5.1%	4.6%
Non-Referred Journeypersons	10,043	6,441,155	\$ 263,415,936	96.6%	95.0%	95.4%
Total Journeypersons	10,397	6,779,508	\$ 276,032,160	100.0%	100.0%	100.0%

Total Workforce						
Total Referred Workers (J+A)	885	913,192	\$ 27,066,203	7.4%	11.8%	9.0%
All Non-Referred Workers						
All Non-Referred Workers	11,028	6,844,287	\$ 274,496,676	92.6%	88.2%	91.0%
Total Workforce	11,913	7,757,479	\$ 301,562,880	100.0%	100.0%	100.0%

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

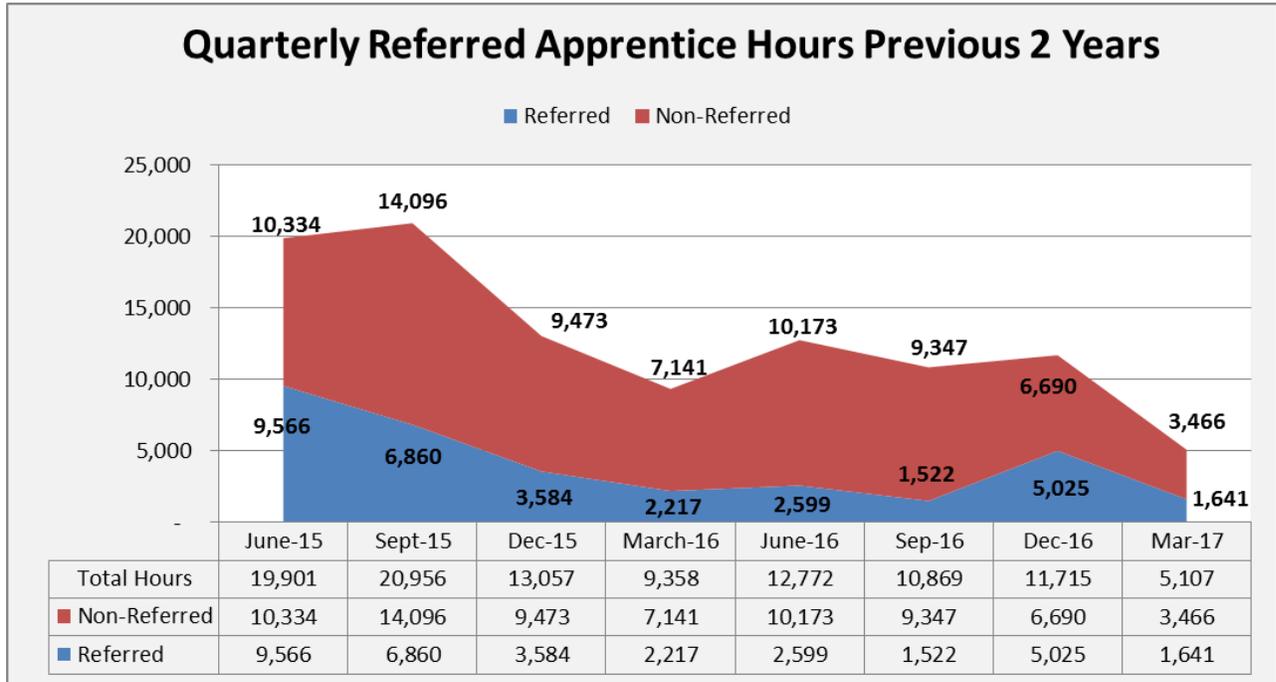
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through March 31, 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 %
CS-936 - Advanced Meter Infrastructure	227,027	79,373	147,654	4,405	20,110	24,515	5.5%	13.6%	10.8%
DB-116 - Tesla Treatment Facility	141,910	26,991	114,920	7,450	1,884	9,334	27.6%	1.6%	6.6%
HH-914R - Roselle Crossover Improvement	12,859	1,943	10,917	256	32	288	13.2%	0.3%	2.2%
HH-935A - San Joaquin Pipeline System	84,483	9,009	75,474	2,977	422	3,399	33.0%	0.6%	4.0%
HH-935B - San Joaquin Pipeline System	100,492	9,304	91,188	5,797	1,923	7,719	62.3%	2.1%	7.7%
HH-935C - San Joaquin Pipeline System	144,012	17,263	126,749	14,185	8,693	22,877	82.2%	6.9%	15.9%
HH-953 - Tesla Portal Protection	11,512	3,255	8,257	3,255	865	4,120	100.0%	10.5%	35.8%
WD-2469 - Forest Knolls Pump Station	26,553	2,907	23,646	1,961	52	2,013	67.5%	0.2%	7.6%
WD-2498 - New Crystal Springs Bypass	117,860	17,612	100,248	319	291	610	1.8%	0.3%	0.5%
WD-2501 - Alemany Pump Station	74,085	7,625	66,460	3,275	1,175	4,450	43.0%	1.8%	6.0%
WD-2504 - Stanford Heights Reservoir S	74,300	9,891	64,409	1,336	4,241	5,577	13.5%	6.6%	7.5%
WD-2511 - Standby Power Facilities, Va	11,275	626	10,649		4	4	0.0%	0.0%	0.0%
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-2529 - Noe Valley Transmission Ma	22,511	1,133	21,378	1,133	263	1,396	100.0%	1.2%	6.2%
WD-2531 - Bay Division Pipelines Reliab	574,410	31,602	542,808	27,311	26,382	53,693	86.4%	4.9%	9.3%
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-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-2542 - Bay Division Pipeline No. 5 -	288,044	26,210	261,834	20,197	4,770	24,967	77.1%	1.8%	8.7%
WD-2543 - North University Mound Syst	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2548 - Lake Merced Pump Station B	101,050	10,807	90,244	3,851	10,836	14,687	35.6%	12.0%	14.5%
WD-2551 - Calaveras Dam Replacement	1,047,096	143,781	903,316	115,035	74,811	189,846	80.0%	8.3%	18.1%
WD-2552 - Alameda Siphon No. 4 Proje	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-2556 - Baden and San Pedro Valve	19,939	2,738	17,201	2,069	98	2,167	75.6%	0.6%	10.9%
WD-2564 - Harry Tracy Water Treatment	43,049	2,089	40,961	1,329	211	1,540	63.6%	0.5%	3.6%
WD-2566 - San Antonio Pump Station U	14,916	1,798	13,119	931		931	51.8%	0.0%	6.2%
WD-2568 - BDPL Nos. 3&4 Crossover F	47,910	4,538	43,373	2,020	185	2,205	44.5%	0.4%	4.6%
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-2575 - San Antonio Backup Pipeline	75,263	12,460	62,803	10,106	3,250	13,356	81.1%	5.2%	17.7%
WD-2581 - New Irvington Tunnel	730,584	51,750	678,834	37,436	15,218	52,653	72.3%	2.2%	7.2%
WD-2582 - Sunol Valley Water Treatme	462,447	68,616	393,832	27,121	8,367	35,488	39.5%	2.1%	7.7%
WD-2589 - Supervisory Control and Data	1,498	115	1,383				0.0%	0.0%	0.0%
WD-2591 - Lower Crystal Springs Dam I	98,656	8,685	89,970	6,917	4,086	11,003	79.6%	4.5%	11.2%
WD-2596 - Harry Tracy Water Treatment	1,012,776	144,217	868,560	81,815	37,310	119,124	56.7%	4.3%	11.8%
WD-2600 - Regional Groundwater Stora	6,088	296	5,792	296		296	100.0%	0.0%	4.9%
WD-2601 - Crystal Springs / San Andrea	488,511	48,640	439,871	41,550	27,188	68,739	85.4%	6.2%	14.1%
WD-2621R - San Francisco Groundwater	41,845	5,147	36,699	1,495	186	1,681	29.0%	0.5%	4.0%
WD-2622 - San Francisco Groundwater	17,782	2,092	15,690	1,286	1,596	2,882	61.5%	10.2%	16.2%
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-2627R - Sutro Reservoir Rehabilitat	154,365	20,639	133,726	17,701	6,589	24,290	85.8%	4.9%	15.7%
WD-2629 - Seismic Upgrade of Bay Divi	135,960	21,881	114,079	17,193	4,064	21,256	78.6%	3.6%	15.6%
WD-2640 - Bioregional Habitat Restorati	10,621	1,615	9,006	1,407	75	1,482	87.1%	0.8%	13.9%
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-2651R - Peninsula 2011 Watershed	22,569	3,135	19,435	2,372	3,551	5,923	75.7%	18.3%	26.2%
WD-2652 - Bioregional Habitat Restorati	110,655	20,661	89,993	14,823	5,899	20,722	71.7%	6.6%	18.7%
WD-2654R - Peninsula Vegetation Remo	13,902	1,244	12,658	1,021	1,217	2,238	82.1%	9.6%	16.1%
WD-2665 - Bay Division Pipeline Reliab	21,967	1,909	20,059	1,848	1,135	2,983	96.8%	5.7%	13.6%
WD-2666 - Bioregional Habitat Restorati	23,492	1,843	21,649	906	2,039	2,945	49.2%	9.4%	12.5%
WD-2668 - Regional Groundwater Stora	127,654	21,345	106,309	8,047	11,927	19,973	37.7%	11.2%	15.6%
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-2729 - Fish Passage Facilities With	39,322	4,125	35,198	745	957	1,702	18.1%	2.7%	4.3%
Total WSIP PLA	7,757,479	977,971	6,779,508	574,840	338,352	913,192	58.8%	5.0%	11.8%

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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 1,641 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.

13,958 pre-employment tests have been administered as of March 31, 2017 to people who were cleared to work. 180 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 **1.28%** 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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WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary Tests Administered to Individuals Cleared to Work Through 03/31/2017	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 Calaveras Dam Replacement Project	1,464
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	234
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-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2621R San Francisco Groundwater Supply Well Stations	93
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-2729 Fish Passage Facilities Within The Alameda Creek Watershed	69
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, S	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 Grass	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	-
WD-2640 Bioregional Habitat Restoration	-
Total Cleared	13,958

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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 June 30, 2017 (Fourth Quarter FY 2016-2017)

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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, 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, 13,252 construction workers were employed for 7,882,500 hours and earned wages of \$306,625,239 on WSIP PLA-covered projects.
- 1,131 San Francisco residents worked 543,605 hours and earned \$20,186,146 on WSIP PLA-covered projects representing 7% of covered hours and 261 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. 5,899 residents of the Regional Service Territory earned wages of \$128,869,745 and worked 3,384,417 hours, representing 43% of covered hours and 1,627 full-time equivalent worker years.
- 14,207 pre-employment substance abuse tests have been administered to employees cleared to work on WSIP PLA-covered projects as of June 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 June 30, 2017			
	Worker Count	Sum of Hours	Sum of Wages	FTE
All Workers	13,252	7,882,500	\$ 306,625,239	3,790
San Francisco	1,131	543,605	\$ 20,186,146	261
SFPUC Service Territory	5,899	3,384,417	\$ 128,869,745	1,627
Outside	6,564	3,954,478	\$ 157,569,348	1,901

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Construction Activity Highlights – Quarter Ending June 30, 2017

Contracting:

- WD-2776 San Francisco Westside Recycled Water Treatment Facility at Oceanside Plant was awarded to S.J. Amoroso Construction Co., Inc. on May 9, 2017, for a total contract amount of \$87,597,000. The work on this contract will primarily be the construction of a new recycled water treatment facility, transmission pump station, and other associated pipelines.

Employment:

- 437 construction workers were employed for 95,338 hours and earned wages of \$3,868,964 on WSIP PLA-covered projects.
- 43 San Francisco residents worked 5,680 hours and earned wages of \$198,078 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, 205 residents of the Regional Service Territory worked 46,326 hours and earned wages of \$1,863,540 on WSIP PLA-covered projects.
- 259 pre-employment substance abuse screenings were administered under the provisions of the WSIP PLA Substance Abuse Policy and 11 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, 2017			
	Worker Count	Sum of Hours	Sum Of Wages	FTE*
All Workers	437	95,338	\$ 3,868,964	46
San Francisco	43	5,680	\$ 198,078	3
SFPUC Service Territory	205	46,326	\$ 1,863,540	22
Outside	191	43,332	\$ 1,807,346	21

*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, 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 Construction	\$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
Total 54 Projects					\$ 2,162,341,320

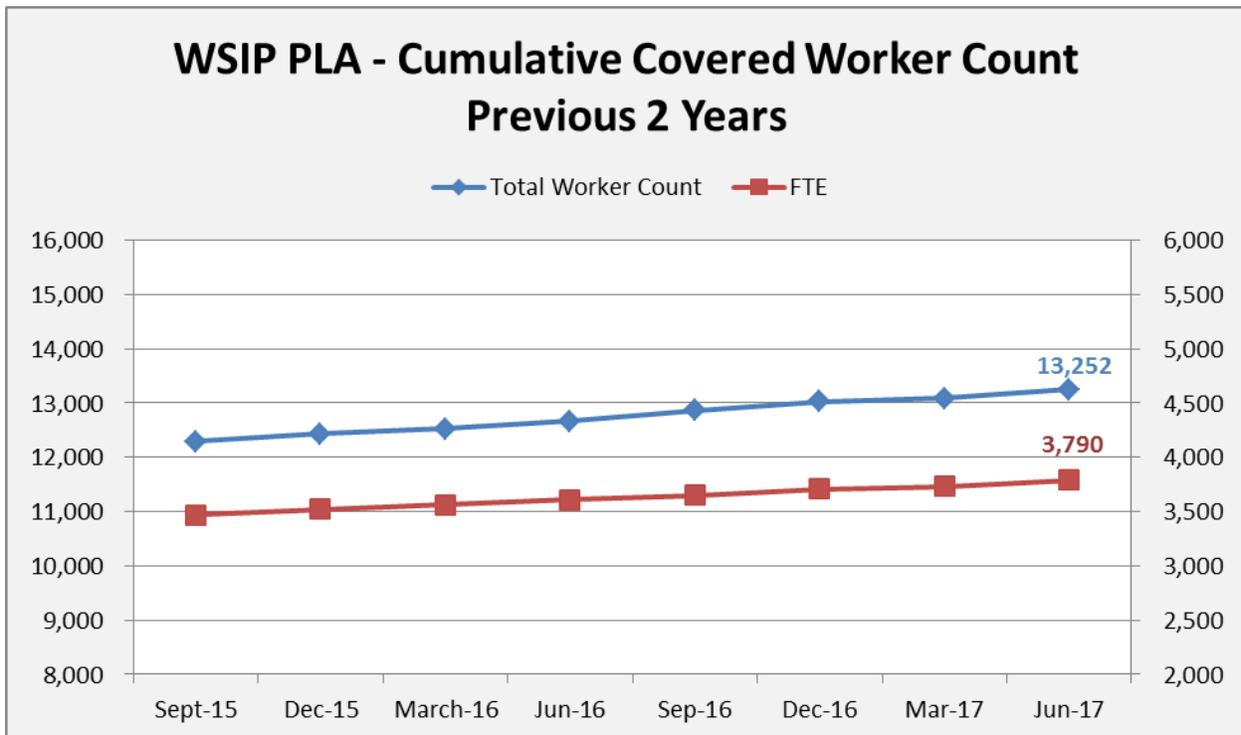
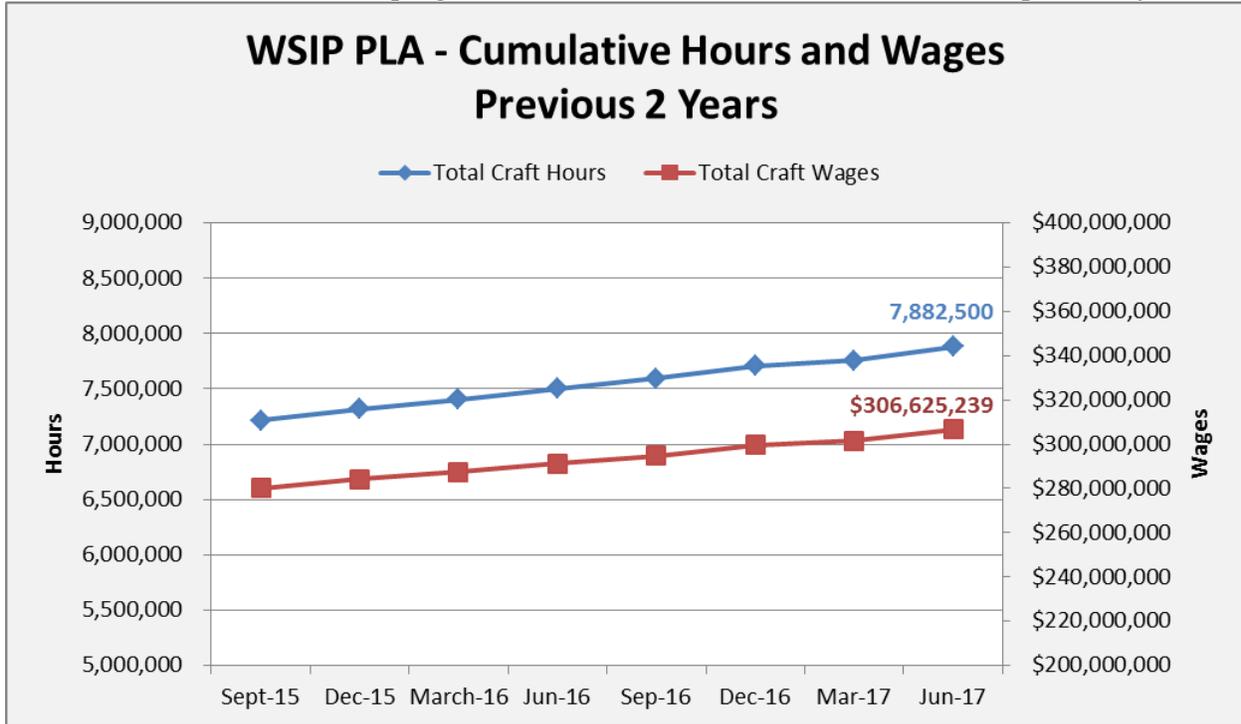
* indicates projects located in San Francisco

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Summary Charts

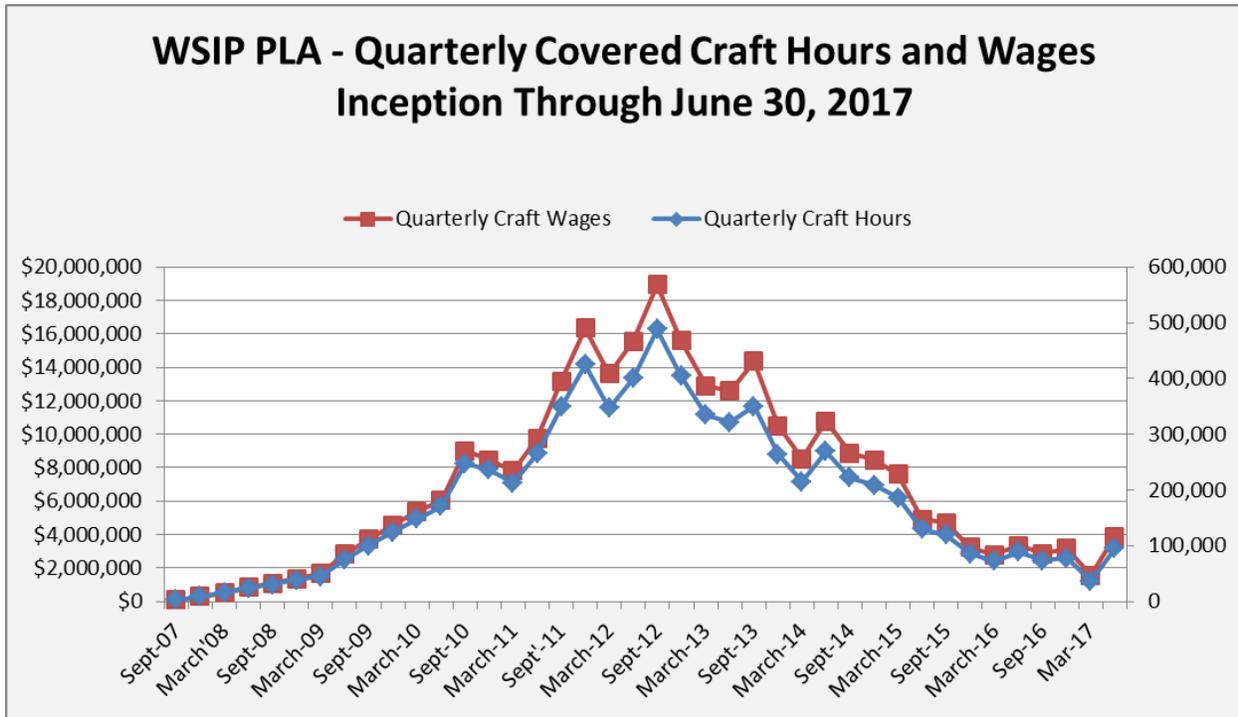
From the inception of the WSIP Project Labor Agreement in March 2007 through the current quarter ending June 30, 2017; 13,252 workers on WSIP PLA-covered projects have achieved a cumulative total of 7,882,500 craft hours and \$306,625,239 in craft wages.

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

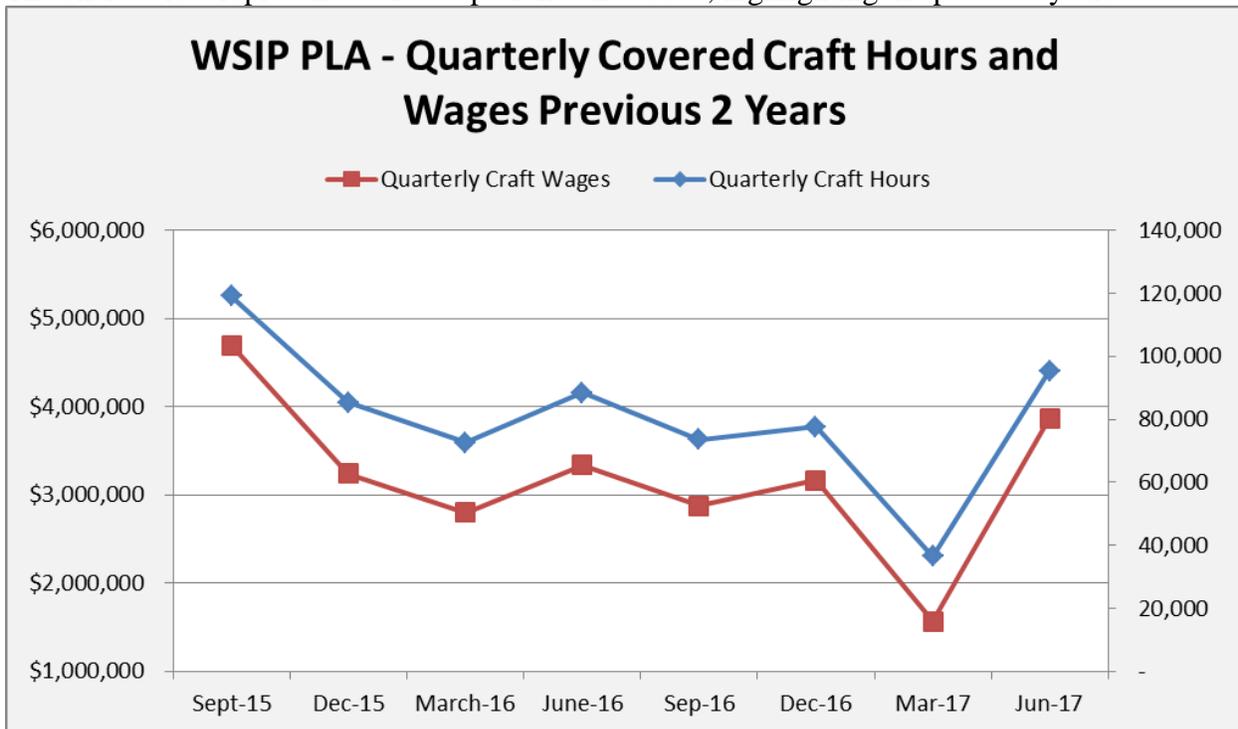


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The top chart on this page illustrates the values recorded *during* each quarter since inception. With the program surpassing 90% total completion, Craft Hours have and will likely continue to trend down until total completion.



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

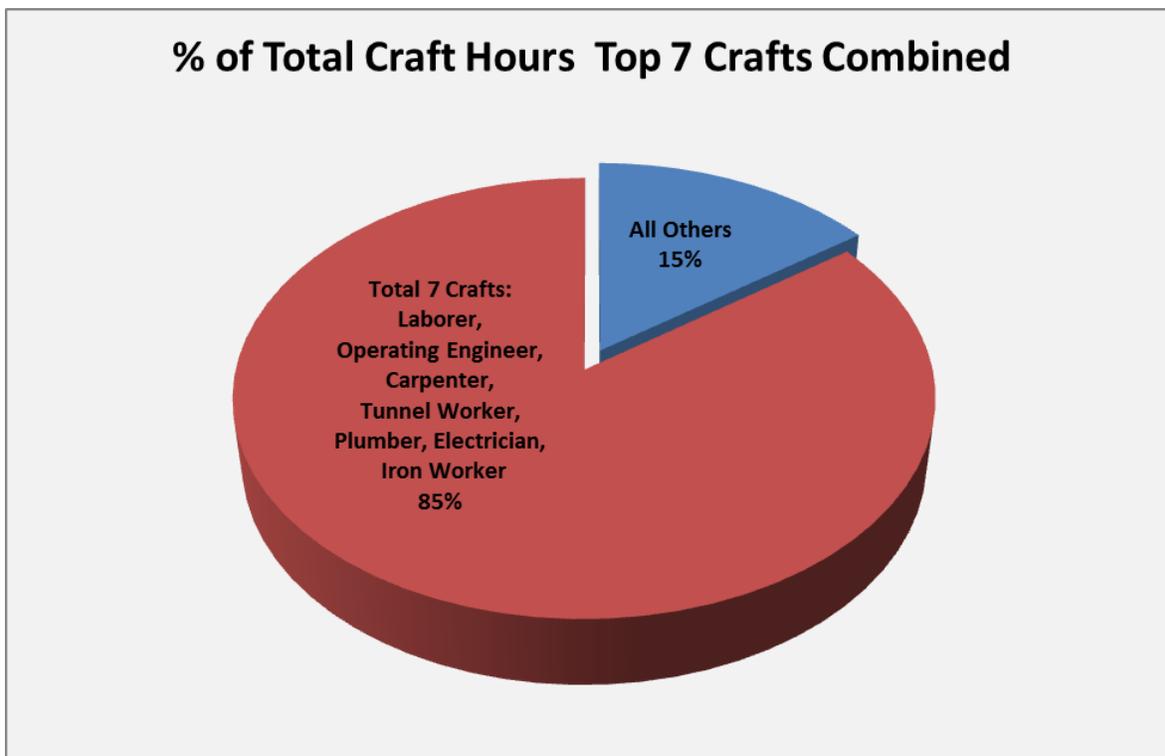
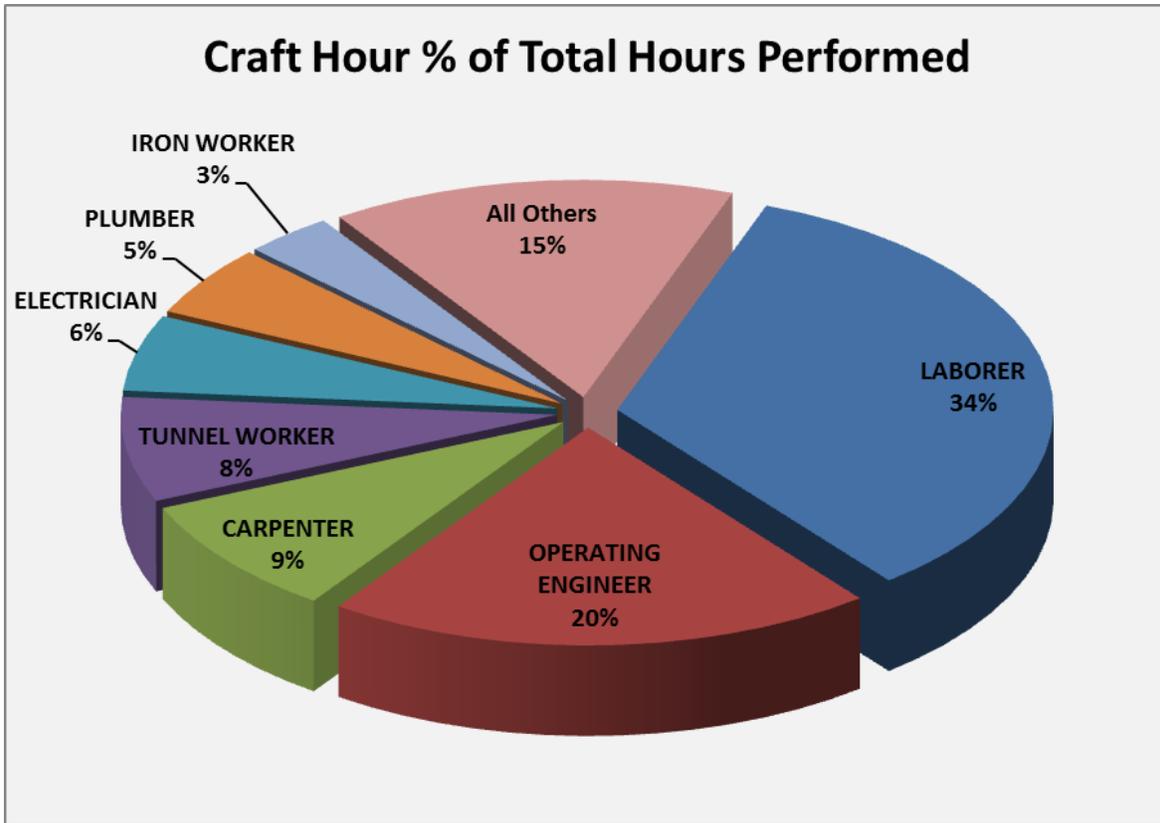
Illustrated here and in the following pages, Laborers, Operating Engineers, Carpenters, and Tunnel Workers, respectively, represent the majority of WSIP PLA craft workers to date. The Plumbers craft numbers include the Advanced Meter Infrastructure (AMI) project which was almost completely performed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

Sorted by Total Craft Hours

Cumulative Employment by Craft					
Inception Through June 30, 2017					
Craft	Total Hours	Total Wages	% Craft Hours of Total Hours	% Wages of Total Wages	FTE
LABORER (Combined)	2,658,455	\$ 80,716,890	33.7%	26.3%	1,278
OPERATING ENGINEER (Combined)	1,604,073	\$ 64,466,939	20.3%	21.0%	771
CARPENTER	696,017	\$ 28,980,355	8.8%	9.5%	335
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	7.8%	8.4%	295
ELECTRICIAN	446,745	\$ 23,521,049	5.7%	7.7%	215
PLUMBER	415,087	\$ 19,375,520	5.3%	6.3%	200
IRON WORKER	258,652	\$ 8,744,092	3.3%	2.9%	124
Top 7 Sub-Total	6,691,993	\$ 251,697,276	84.9%	82.1%	3,217
PILE DRIVER (CARPENTER)	162,289	\$ 8,669,039	2.1%	2.8%	78
PAINTER	142,296	\$ 5,360,202	1.8%	1.7%	68
CEMENT MASON	119,582	\$ 4,153,364	1.5%	1.4%	57
BOILERMAKER-BLACKSMITH	118,855	\$ 6,255,134	1.5%	2.0%	57
BUILDING/CONSTRUCTION INSPECTOR AND FIELD	68,175	\$ 2,723,946	0.9%	0.9%	33
ROOFER	50,016	\$ 1,700,057	0.6%	0.6%	24
FIELD SURVEYOR	20,399	\$ 813,290	0.3%	0.3%	10
SHEET METAL WORKER	16,099	\$ 774,174	0.2%	0.3%	8
DRYWALL INSTALLER/LATHER (CARPENTER)	11,886	\$ 508,456	0.2%	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)	1,040	\$ 34,327	0.0%	0.0%	0
BRICK TENDER	827	\$ 27,956	0.0%	0.0%	0
PARKING AND HIGHWAY IMPROVEMENT PAINTER	718	\$ 23,239	0.0%	0.0%	0
ASBESTOS WORKER, HEAT AND FROST INSULATOR	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
Remaining Apprenticeable Sub-Total	738,844	\$ 32,237,990	9.4%	10.5%	355
Total Non-Apprenticeable	451,663	\$ 22,689,972	5.7%	7.4%	217
Total WSIP-Covered by PLA	7,882,500	\$ 306,625,239	100.0%	100.0%	3,790

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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, 2017. Laborers, Operating Engineers, Carpenters, and Tunnel Workers combined represent 71% of craft hours worked on PLA-covered projects.



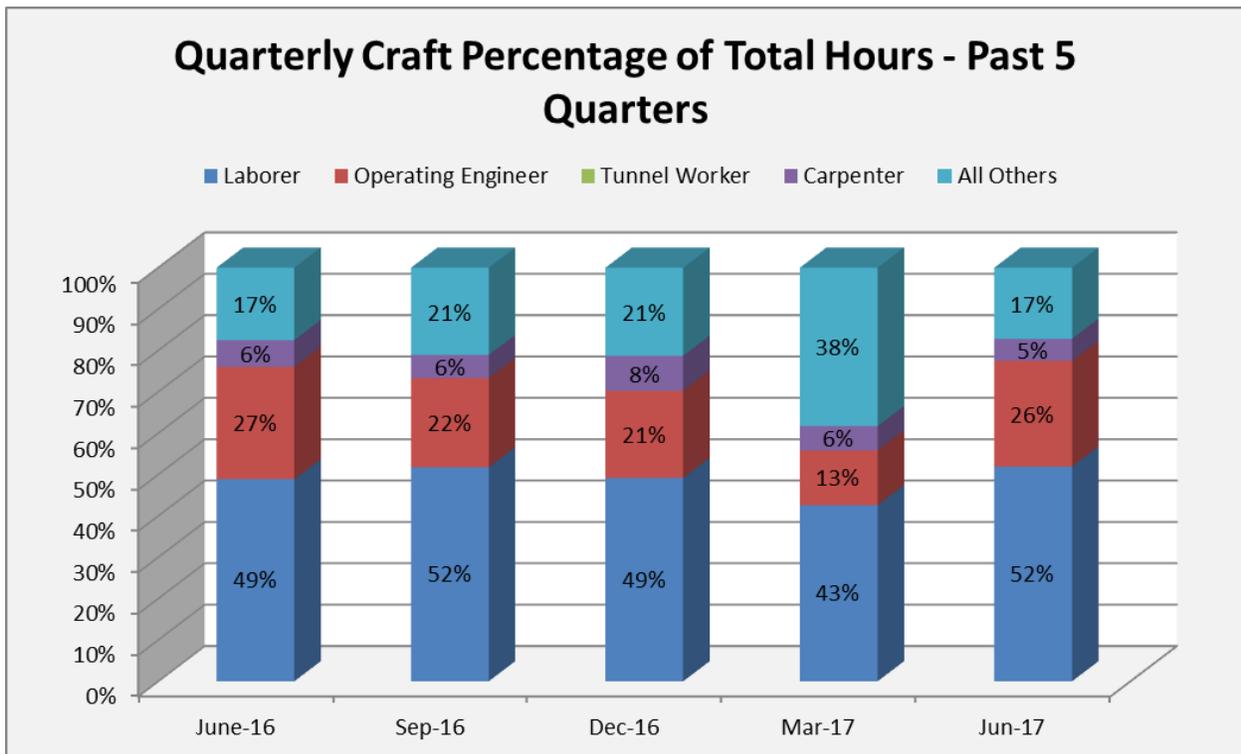
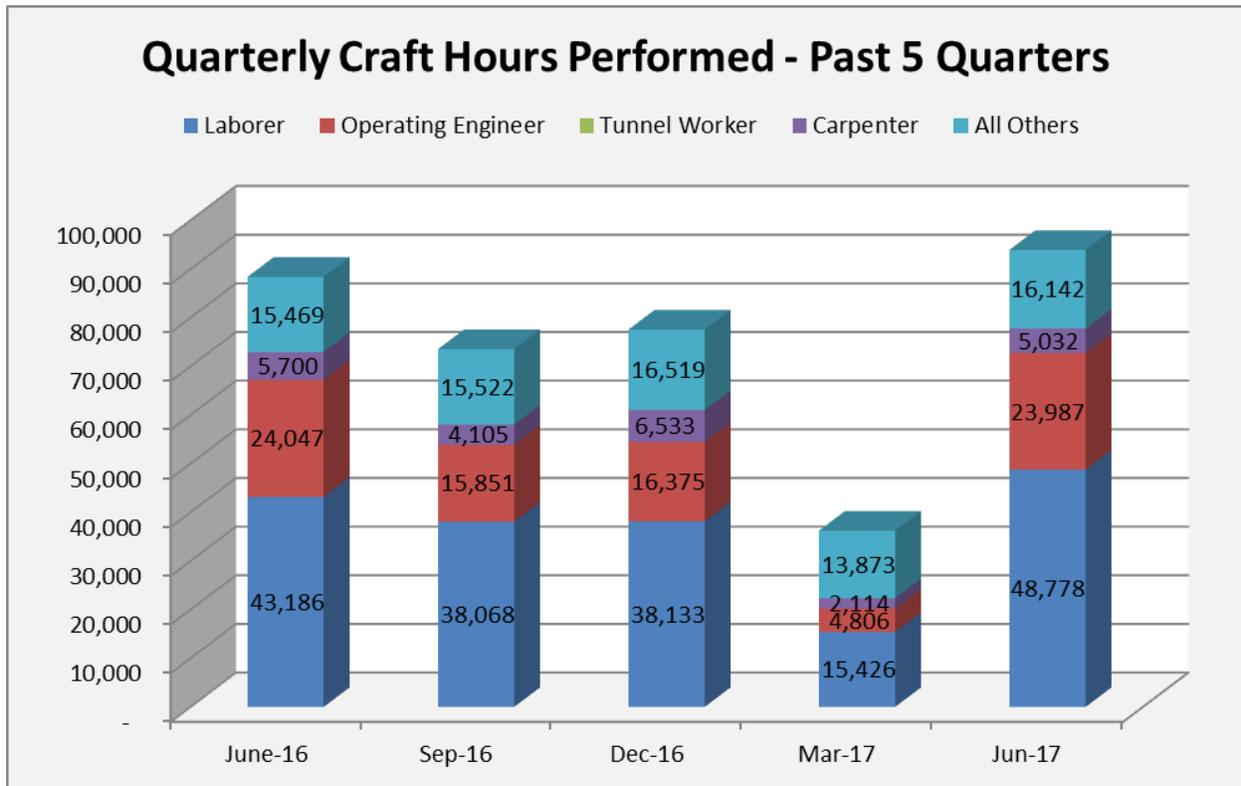
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The table below reflects the values of hours and wages for each trade cumulatively since the inception of the WSIP and the most recent reporting period.

Craft	Total Cumulative Hours	Total Cumulative Wages	Quarter Ending 6-30-2017 Hours	Quarter Ending 6-30-2017 Wages
LABORER	2,658,455	\$ 80,716,890	48,778	\$ 1,673,066
OPERATING ENGINEER	547,248	\$ 20,650,966	15,442	\$ 693,797
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK)	1,002,702	\$ 41,547,783	8,545	\$ 424,314
PILE DRIVER (OPERATING ENGINEER - HEAVY AND HIGHWAY WORK)	51,487	\$ 2,170,668	-	\$ -
OPERATING ENGINEER (SPECIAL SINGLE AND SECOND SHIFT)	2,637	\$ 97,521	-	\$ -
OPERATING ENGINEER (COMBINED)	4,262,527	\$ 145,183,787	23,987	\$ 1,118,111
CARPENTER AND RELATED TRADES	696,017	\$ 28,980,355	5,032	\$ 235,708
TUNNEL WORKER (LABORER)	612,964	\$ 25,892,431	-	\$ -
ELECTRICIAN	446,745	\$ 23,521,049	5,178	\$ 294,264
PLUMBER	415,087	\$ 19,375,520	863	\$ 53,165
IRON WORKER	258,652	\$ 8,744,092	1,994	\$ 73,671
PILE DRIVER (CARPENTER)	162,289	\$ 8,669,039	2,745	\$ 125,257
PAINTER	142,296	\$ 5,360,202	933	\$ 33,748
CEMENT MASON	119,582	\$ 4,153,364	220	\$ 7,305
BOILERMAKER-BLACKSMITH	118,855	\$ 6,255,134	142	\$ 6,799
BUILDING/CONSTRUCTION INSPECTOR AND FIELD SOILS AND MATERIALS	68,175	\$ 2,723,946	2,988	\$ 122,019
ROOFER	50,016	\$ 1,700,057	32	\$ 1,148
FIELD SURVEYOR	20,399	\$ 813,290	103	\$ 3,526
SHEET METAL WORKER	16,099	\$ 774,174	698	\$ 39,296
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)	1,040	\$ 34,327	247	\$ 7,878
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	-	\$ -
Total Apprenticable	7,430,837	\$ 283,935,267	93,938	\$ 3,794,959
Non-Apprenticeable				
TEAMSTER	128,489	\$ 5,871,644	997	\$ 52,410
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION SITE)	97,376	\$ 7,081,985	15	\$ 1,320
OPERATING ENGINEER (HEAVY AND HIGHWAY WORK) (SPECIAL SINGLE AND SECOND SHIFT)	95,208	\$ 4,417,947	8	\$ 512
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	-	\$ -
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001	\$ 35,916	-	\$ -
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER - HEAVY AND HIGHWAY WORK)	941	\$ 46,613	381	\$ 19,764
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	-	\$ -
Total Non-Apprenticeable	451,663	\$ 22,689,972	1,400	\$ 74,005
Total Apprenticable	7,430,837	\$ 283,935,267	93,938	\$ 3,794,959
Total WSIP PLAs	7,882,500	\$ 306,625,239	95,338	\$ 3,868,964

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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.

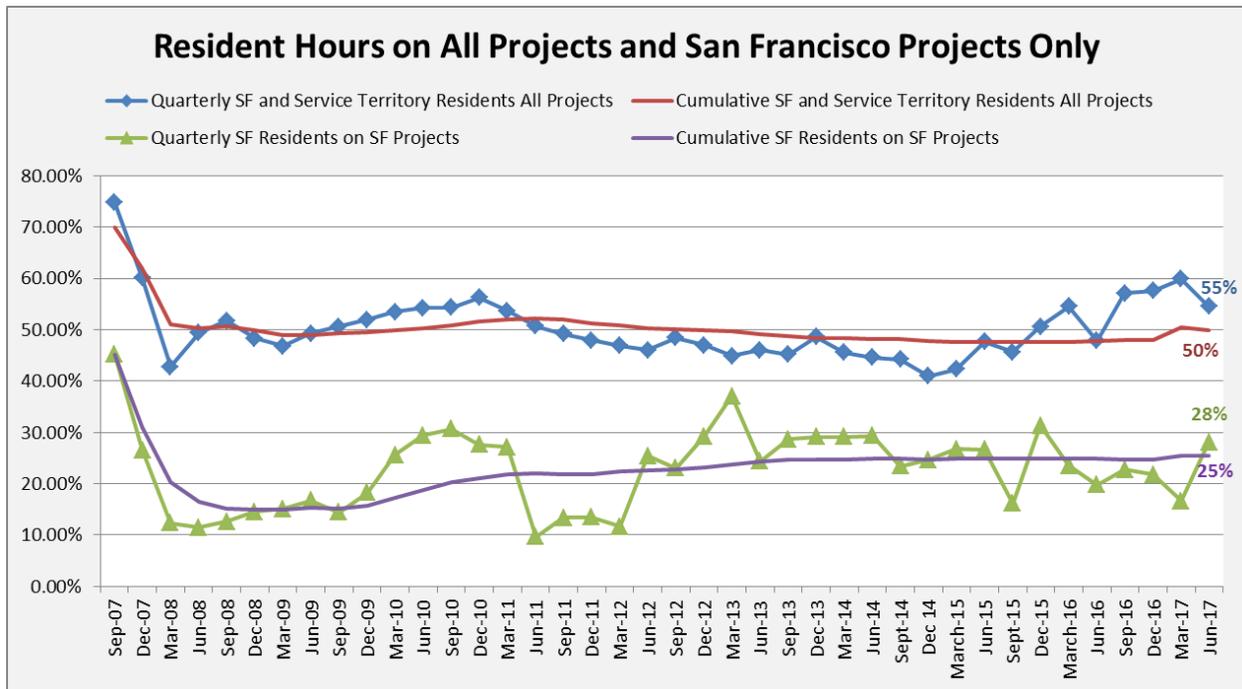


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Worker Residence on the WSIP PLA

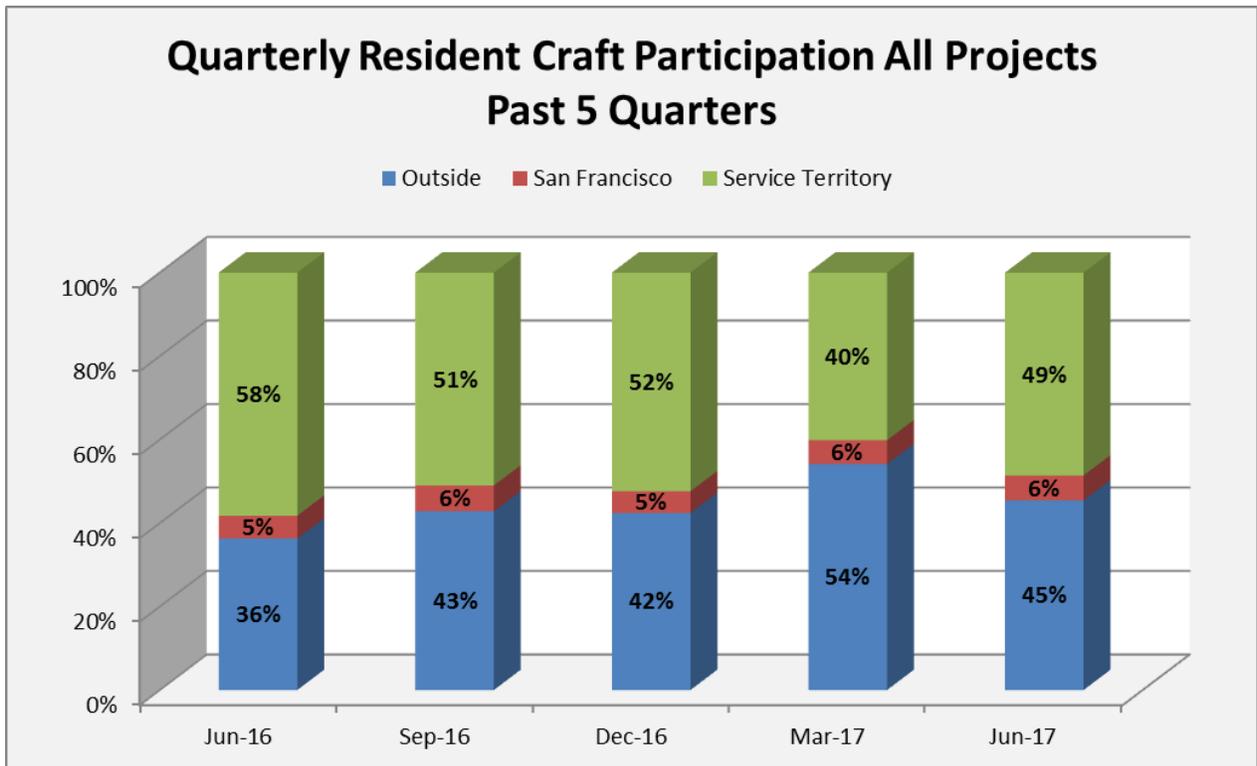
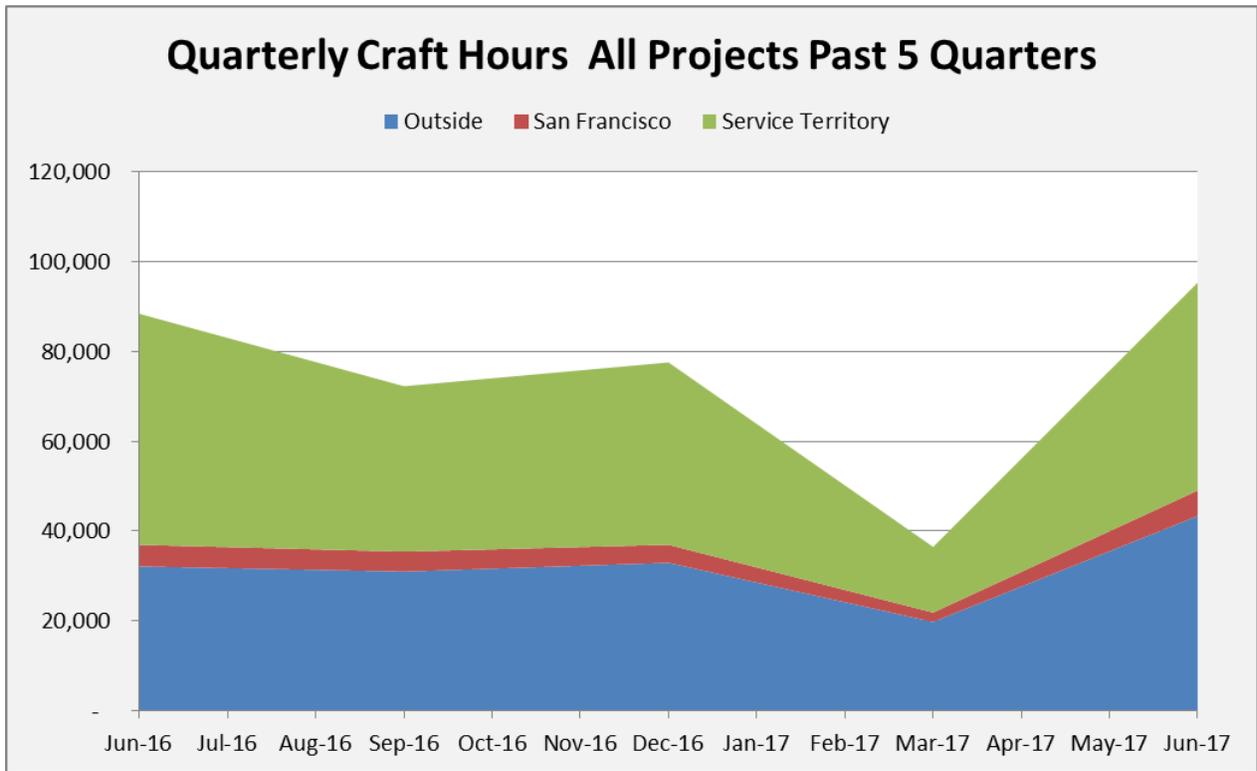
The Regional Service Territory, covering seven counties, is defined as zip codes outside San Francisco and within which the SFPUC delivers wholesale water, in addition to zip codes impacted by WSIP construction.

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, 2017.



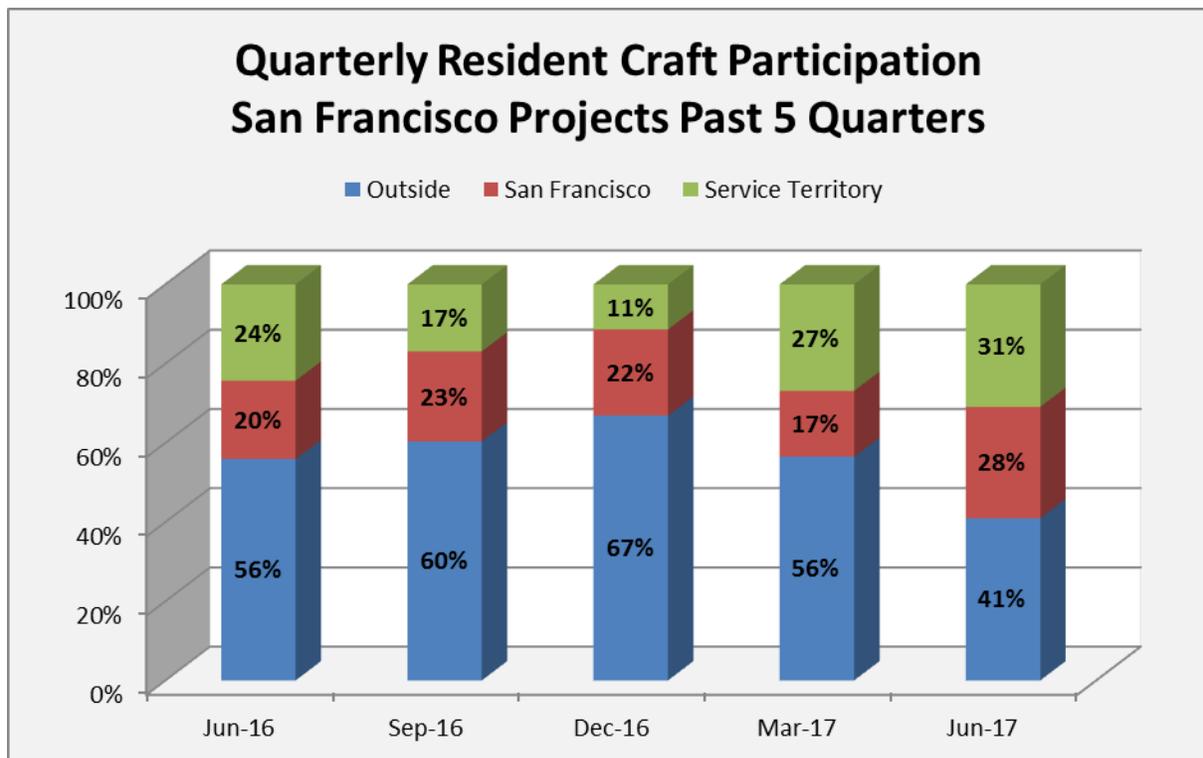
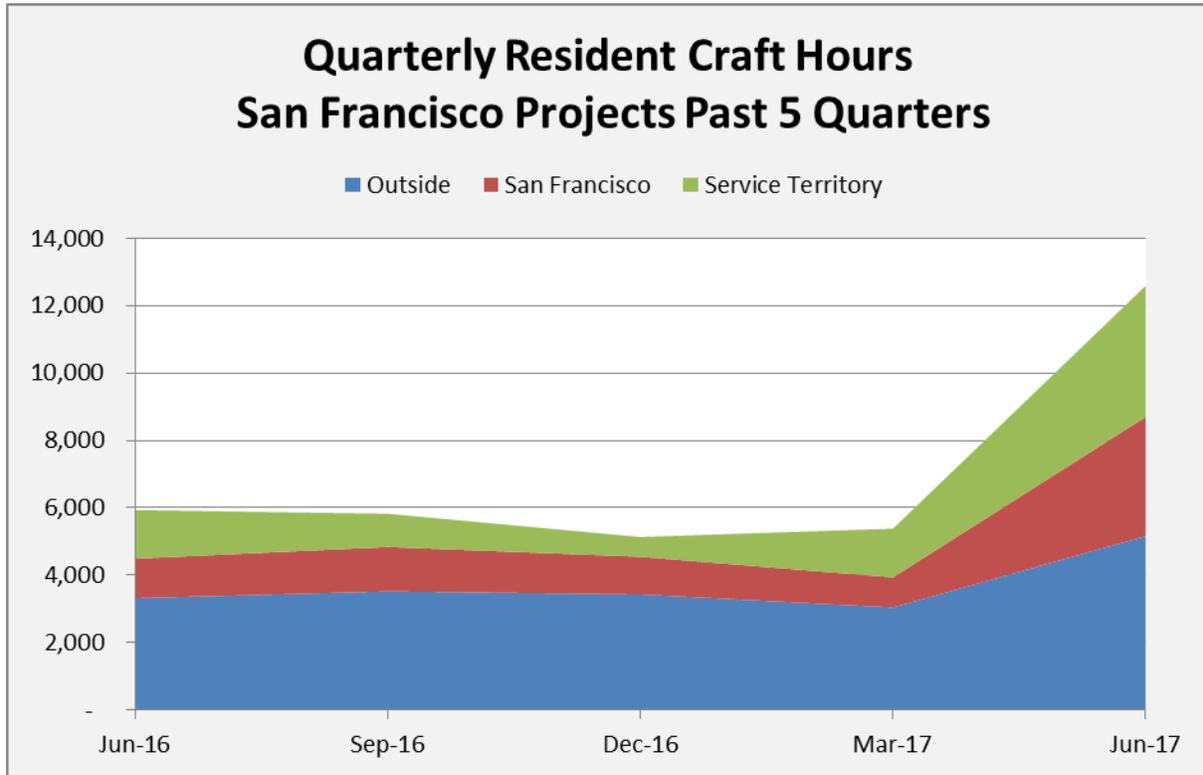
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Residence on ALL WSIP PLA Projects - Charted are 54 of the 54 total projects covered under the WSIP PLA within San Francisco and the Service Territory.



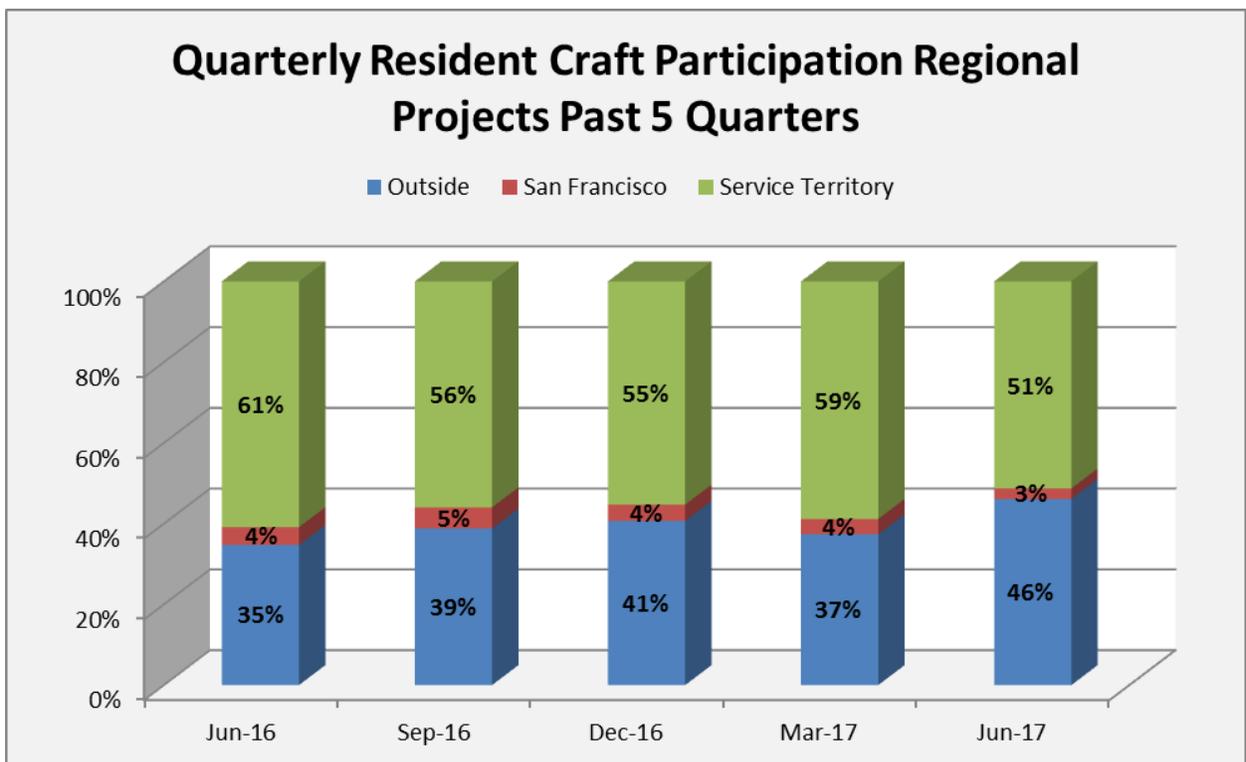
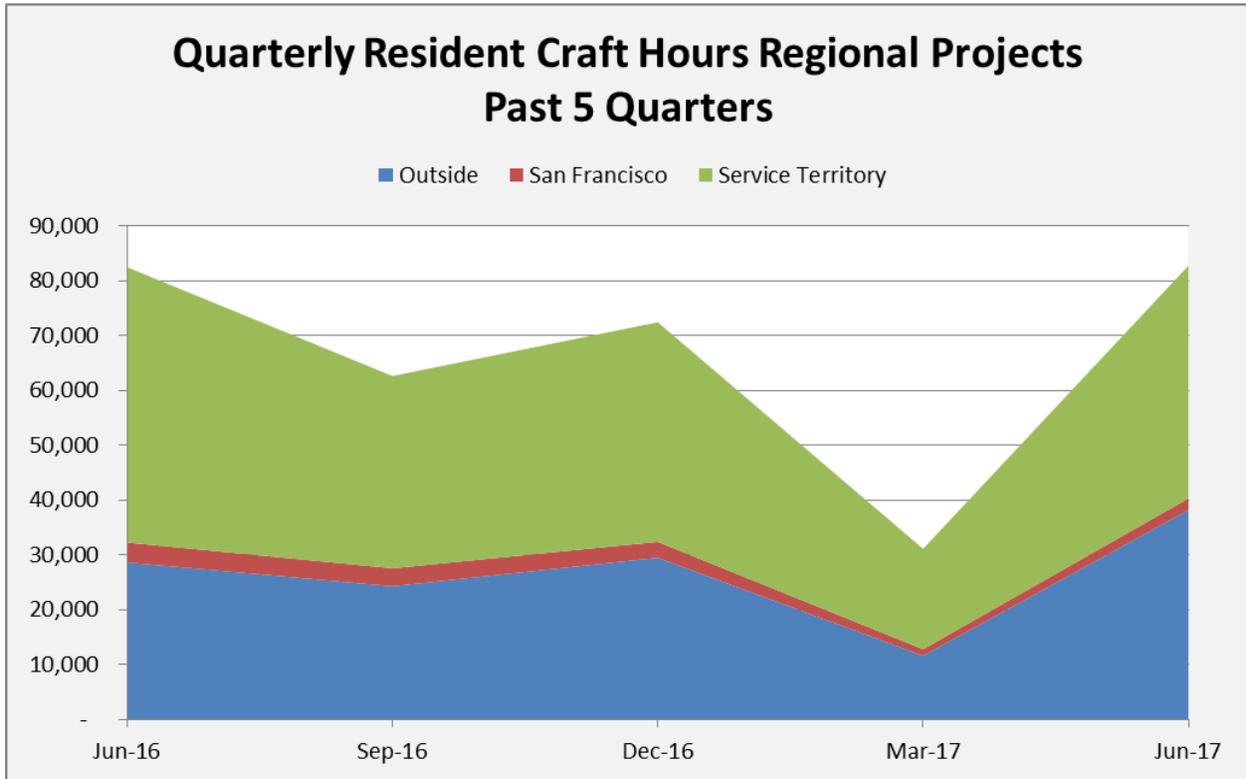
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Residence on San Francisco-located WSIP PLA Projects - Charted are the 16 projects covered by the WSIP PLA located within San Francisco only.



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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

WSIP-PLA Employment by Top 20 Counties of Residence					
Inception Through June 30, 2017					
County	Total Craft Hours	Wages	% Craft Hours	Worker Count	FTE
Alameda	1,445,134	\$ 52,913,261	18.3%	2,712	695
Contra Costa	1,035,404	\$ 39,850,067	13.1%	1,793	498
San Mateo	783,186	\$ 31,166,285	9.9%	1,209	377
San Joaquin	731,595	\$ 27,002,040	9.3%	1,137	352
San Francisco	543,605	\$ 20,186,146	6.9%	1,131	261
Santa Clara	447,926	\$ 18,159,162	5.7%	1,194	215
Solano	392,508	\$ 15,415,328	5.0%	745	189
Stanislaus	343,883	\$ 12,443,169	4.4%	576	165
Sacramento	331,176	\$ 12,959,063	4.2%	550	159
Butte	203,376	\$ 7,993,787	2.6%	117	98
Sonoma	168,164	\$ 6,686,885	2.1%	311	81
Tuolumne	90,288	\$ 3,951,106	1.1%	77	43
Calaveras	90,287	\$ 3,456,001	1.1%	91	43
El Dorado	80,256	\$ 3,203,782	1.0%	124	39
Placer	79,885	\$ 3,288,018	1.0%	84	38
Yolo	67,637	\$ 2,610,830	0.9%	89	33
Los Angeles	66,849	\$ 2,853,470	0.8%	138	32
Clark	62,651	\$ 2,769,505	0.8%	66	30
Shasta	62,115	\$ 2,722,192	0.8%	55	30
Napa	55,328	\$ 2,430,692	0.7%	73	27
Top 20 Counties by Hours	7,081,254	\$ 272,060,790	88.7%	12,272	3,404
All Other Counties	801,246	\$ 34,564,448	11.3%	980	385
WSIP-PLA Total	7,882,500	\$ 306,625,239	100.0%	13,252	3,790

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San Francisco Residents by Zip Code

Sorted by Total Craft Hours

Employment by San Francisco Zip Code					
Inception Through June 30, 2017					
San Francisco Zip Codes	Total Workers				
	Total Craft Hours	Wages	% Total Craft Hours	Worker Count	FTE
94112	93,254	\$ 3,239,171	17.0%	192	45
94124	85,902	\$ 3,215,731	15.7%	227	41
94110	80,998	\$ 2,738,987	14.8%	164	39
94116	66,281	\$ 3,187,105	12.1%	78	32
94134	42,311	\$ 1,287,217	7.7%	108	20
94122	29,688	\$ 1,301,211	5.4%	60	14
94121	24,625	\$ 971,172	4.5%	44	12
94103	24,305	\$ 747,664	4.4%	33	12
94127	19,459	\$ 687,464	3.6%	20	9
94102	8,622	\$ 383,703	1.6%	19	4
94132	8,491	\$ 333,875	1.5%	31	4
94118	8,394	\$ 411,471	1.5%	20	4
94131	8,077	\$ 306,060	1.5%	21	4
94117	7,957	\$ 200,923	1.5%	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
Total	543,605	\$ 20,186,146	100%	1,131	261
WSIP-PLA Total	7,882,500	\$ 306,625,239	-	13,252	3,790

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Residence by Craft

Sorted by Total Hours

Cumulative Employment of Residents By Craft Inception Through June 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 HIGHWAY)	1,002,702	17,948	414,090	570,664	1.8%	41.3%	56.9%
CARPENTER AND RELATED TRADES	696,017	77,408	302,428	316,182	11.1%	43.5%	45.4%
TUNNEL WORKER (LABORER)	612,964	11,171	249,754	352,040	1.8%	40.8%	57.4%
OPERATING ENGINEER	547,248	46,534	212,149	288,566	8.5%	38.8%	52.7%
ELECTRICIAN	446,745	23,925	264,361	158,460	5.4%	59.2%	35.5%
PLUMBER	415,087	80,884	144,543	189,660	19.5%	34.8%	45.7%
IRON WORKER	258,652	19,657	97,072	141,923	7.6%	37.5%	54.9%
PILE DRIVER (CARPENTER)	162,289	6,526	47,127	108,637	4.0%	29.0%	66.9%
PAINTER	142,296	8,977	18,431	114,889	6.3%	13.0%	80.7%
CEMENT MASON	119,582	5,743	55,761	58,079	4.8%	46.6%	48.6%
BOILERMAKER-BLACKSMITH	118,855	48	27,196	91,610	0.0%	22.9%	77.1%
BUILDING/CONSTRUCTION INSPECTOR AND	68,175	3,943	11,828	52,404	5.8%	17.4%	76.9%
PILE DRIVER (OPERATING ENGINEER - HEAVY)	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	20,399	1,342	4,131	14,926	6.6%	20.3%	73.2%
SHEET METAL WORKER	16,099	1,537	9,378	5,184	9.6%	58.3%	32.2%
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%
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 SINGLE SHIFT)	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)	1,040	277	574	189	26.6%	55.2%	18.2%
BRICK TENDER	827	287	78	462	34.7%	9.4%	55.9%
PARKING AND HIGHWAY IMPROVEMENT PAVER	718	-	384	334	0.0%	53.5%	46.5%
ASBESTOS WORKER, HEAT AND FROST INSULATION	507	-	268	239	0.0%	52.9%	47.1%
CARPET, LINOLEUM, SOFT FLOOR LAYER	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%
Total Apprenticeable	4,772,384	314,552	1,909,646	2,548,185	6.6%	40.0%	53.4%
LABORER	2,658,455	201,137	1,223,676	1,233,642	7.6%	46.0%	46.4%
Non-Apprenticeable							
TEAMSTER	128,489	9,403	71,787	47,299	7.3%	55.9%	36.8%
DRIVER (ON/OFF-HAULING TO/FROM CONSTRUCTION)	97,376	17,031	64,543	15,802	17.5%	66.3%	16.2%
OPERATING ENGINEER (HEAVY AND HIGHWAY)	95,208	-	45,352	49,856	0.0%	47.6%	52.4%
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 CLEARING)	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%
TRAFFIC CONTROL/LANE CLOSURE (LABORER)	1,001	-	789	212	0.0%	78.8%	21.2%
STEEL ERECTOR AND FABRICATOR (OPERATING ENGINEER)	941	-	282	659	0.0%	30.0%	70.0%
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 PAVER	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%
Total Non-Apprenticeable	451,663	27,916	251,095	172,652	6.2%	55.6%	38.2%
Total WSIP PLA	7,882,500	543,605	3,384,417	3,954,478	6.9%	42.9%	50.2%

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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, 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	1,116,316	5,469	466,781	644,067	0.5%	41.8%	57.7%
WD-2596 - Harry Tracy Water Treatment Plant Long-Term	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 Upgrade -	583,318	18,599	335,644	229,074	3.2%	57.5%	39.3%
WD-2601 - Crystal Springs / San Andreas Transmission	489,176	25,360	194,232	269,583	5.2%	39.7%	55.1%
WD-2582 - Sunol Valley Water Treatment Plant and Tr	462,447	11,320	202,938	248,189	2.4%	43.9%	53.7%
WD-2542 - Bay Division Pipeline No. 5 - Peninsula Rea	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 Rea	208,255	14,163	86,775	107,317	6.8%	41.7%	51.5%
WD-2539 - University Mound Reservoir North Basin Se	187,032	50,004	44,847	92,181	26.7%	24.0%	49.3%
WD-2627R - Sutro Reservoir Rehabilitation and Seismi	154,545	49,239	39,346	65,960	31.9%	25.5%	42.7%
HH-935C - San Joaquin Pipeline System - Eastern Seg	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 Division Pipeline N	135,960	567	57,385	78,009	0.4%	42.2%	57.4%
WD-2668 - Regional Groundwater Storage and Recover	135,349	21,982	72,503	40,864	16.2%	53.6%	30.2%
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 Replacement	127,805	34,923	35,415	57,467	27.3%	27.7%	45.0%
WD-2498 - New Crystal Springs Bypass (Polhemus) T	117,860	6,825	61,288	49,748	5.8%	52.0%	42.2%
WD-2652 - Bioregional Habitat Restoration, San Anton	110,655	2,810	49,991	57,854	2.5%	45.2%	52.3%
WD-2548 - Lake Merced Pump Station Essential Upgra	101,050	23,185	27,768	50,098	22.9%	27.5%	49.6%
HH-935B - San Joaquin Pipeline System - Western Se	100,492	426	45,319	54,747	0.4%	45.1%	54.5%
WD-2591 - Lower Crystal Springs Dam Improvements	98,656	5,022	57,594	36,040	5.1%	58.4%	36.5%
HH-935A - San Joaquin Pipeline System - Crossovers	84,483	158	47,626	36,699	0.2%	56.4%	43.4%
WD-2513 - San Andreas Pipeline No.3 Installation Proj	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 Retrofit	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-2729 - Fish Passage Facilities Within The Alamed	60,475	594	23,969	35,913	1.0%	39.6%	59.4%
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 Reha	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-2621R - San Francisco Groundwater Supply Well	46,774	10,218	11,460	25,096	21.8%	24.5%	53.7%
WD-2641R - Habitat Reserve Program, Homestead Por	44,018	7,286	11,135	25,597	16.6%	25.3%	58.2%
WD-2564 - Harry Tracy Water Treatment Plant - Short	43,049	7,220	12,879	22,950	16.8%	29.9%	53.3%
WD-2469 - Forest Knolls Pump Station and Storage Ta	26,553	3,844	8,582	14,127	14.5%	32.3%	53.2%
WD-2666 - Bioregional Habitat Restoration, Sheep Car	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 Compensation	22,569	557	11,609	10,403	2.5%	51.4%	46.1%
WD-2529 - Noe Valley Transmission Main - Phase II	22,511	3,918	7,931	10,662	17.4%	35.2%	47.4%
WD-2665 - Bay Division Pipeline Reliability Upgrade Pr	21,967	341	7,653	13,974	1.6%	34.8%	63.6%
WD-2556 - Baden and San Pedro Valve Lot Improve	19,939	4,570	10,634	4,735	22.9%	53.3%	23.7%
WD-2622 - San Francisco Groundwater Supply Pipelin	17,782	4,360	3,453	9,969	24.5%	19.4%	56.1%
WD-2654R - Peninsula Vegetation Removal	16,389	3,003	6,212	7,175	18.3%	37.9%	43.8%
WD-2566 - San Antonio Pump Station Upgrades Proj	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 Location	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-2798 - San Francisco Westside Recycled Water F	8,645	2,739	2,806	3,100	31.7%	32.5%	35.9%
WD-2600 - Regional Groundwater Storage and Recover	6,088	0	296	5,792	0.0%	4.9%	95.1%
WD-2589 - Supervisory Control and Data Acquisition S	1,498	113	242	1,144	7.6%	16.1%	76.3%
WD-2776 - San Francisco Westside Recycled Water T	0	0	0	0	0.0%	0.0%	0.0%
WD-2809 - San Francisco Groundwater Supply Phase	0	0	0	0	0.0%	0.0%	0.0%
Total WSIP PLA	7,882,500	543,605	3,384,417	3,954,478	6.9%	42.9%	50.2%

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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.

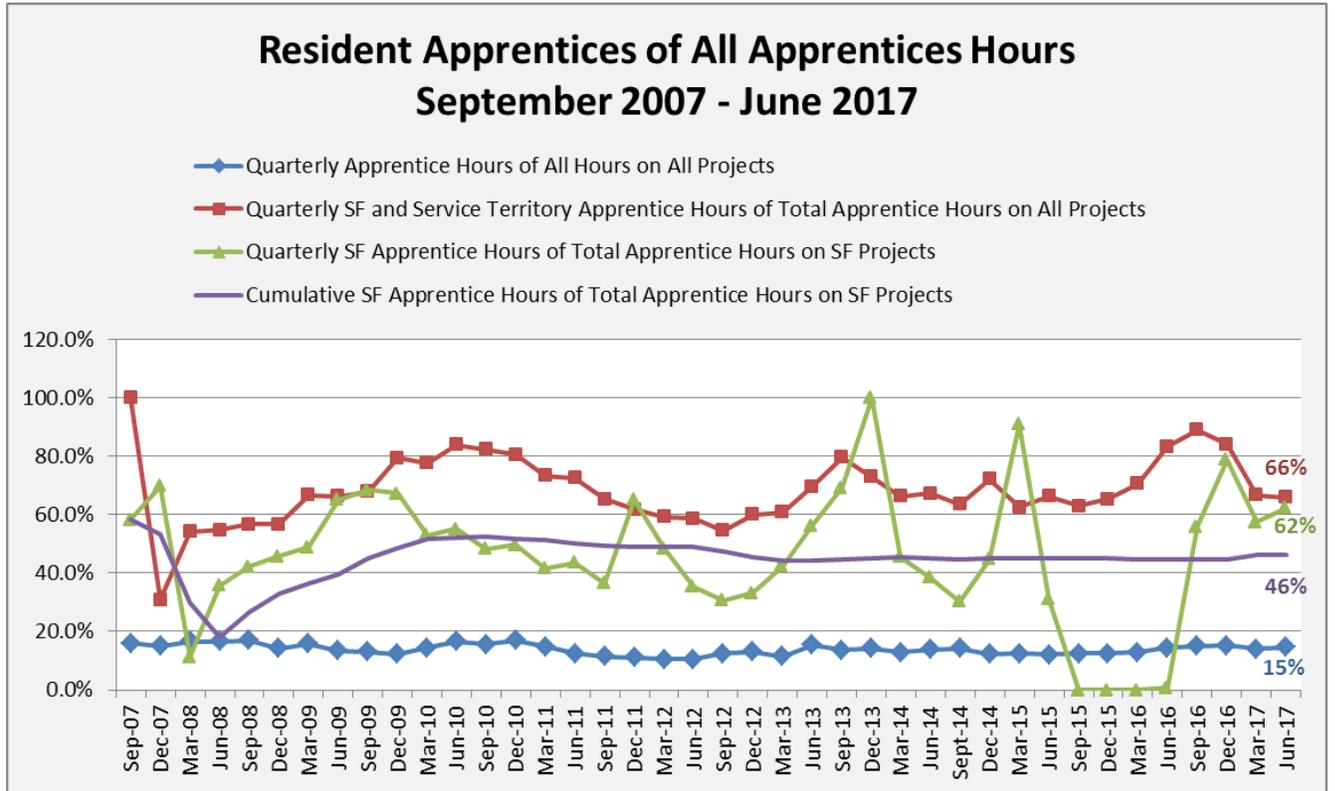
Through the end of the current quarter, 13.4% of craft hours in apprenticeable trades have been worked by apprentices. 17% of apprentice hours were worked by San Francisco residents and 55% were worked by residents of the Regional Service Territory, or 73% combined.

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 HIGHWAY)	1,002,702	20,663	3,912	11,459	5,293	2.1%	0.4%	1.1%	18.9%	55.5%	25.6%
A - CARPENTER AND RELATED TRADES	696,017	108,140	27,673	50,336	30,131	15.5%	4.0%	7.2%	25.6%	46.5%	27.9%
A - TUNNEL WORKER (LABORER)	612,964	-	-	-	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
A - OPERATING ENGINEER	547,248	171,278	25,475	77,001	68,802	31.3%	4.7%	14.1%	14.9%	45.0%	40.2%
A - ELECTRICIAN	446,745	82,304	9,024	57,358	15,922	18.4%	2.0%	12.8%	11.0%	69.7%	19.3%
A - PLUMBER	415,087	114,176	32,748	56,070	25,357	27.5%	7.9%	13.5%	28.7%	49.1%	22.2%
A - IRON WORKER	258,652	56,382	12,179	23,828	20,376	21.8%	4.7%	9.2%	21.6%	42.3%	36.1%
A - PILE DRIVER (CARPENTER)	162,289	13,593	4,451	4,915	4,228	8.4%	2.7%	3.0%	32.7%	36.2%	31.1%
A - PAINTER	142,296	24,548	1,809	6,546	16,194	17.3%	1.3%	4.6%	7.4%	26.7%	66.0%
A - CEMENT MASON	119,582	5,523	3,608	763	1,152	4.6%	3.0%	0.6%	65.3%	13.8%	20.9%
A - BOILERMAKER-BLACKSMITH	118,855	2,354	40	1,238	1,076	2.0%	0.0%	1.0%	1.7%	52.6%	45.7%
A - BUILDING/CONSTRUCTION INSPECTOR AND F	68,175	2,017	5	1,242	770	3.0%	0.0%	1.8%	0.2%	61.6%	38.2%
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	20,399	617	8	67	542	3.0%	0.0%	0.3%	1.3%	10.9%	87.8%
A - SHEET METAL WORKER	16,099	1,799	16	931	852	11.2%	0.1%	5.8%	0.9%	51.7%	47.4%
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)	1,040	876	277	444	155	84.2%	26.6%	42.7%	31.6%	50.7%	17.7%
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	4,772,382	622,219	123,494	300,489	198,237	13.0%	2.6%	6.3%	19.8%	48.3%	31.9%
A - LABORER	2,658,455	373,012	44,286	252,225	76,500	14.0%	1.7%	9.5%	11.9%	67.6%	20.5%
A-Operating Engineer (COMBINED)	1,604,073	193,132	29,386	89,507	74,240	12.0%	1.8%	5.6%	15.2%	46.3%	38.4%
Total Apprenticeable	7,430,837	995,231	167,779	552,714	274,737	13.4%	2.3%	7.4%	16.9%	55.5%	27.6%
Total Non-Apprenticeable	451,663	-	-	-	-	-	-	-	-	-	-
Total WSIP - Covered by PLA	7,882,500	-	-	-	-	-	-	-	-	-	-

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For the three months ending June 30, 2017, 62% 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.



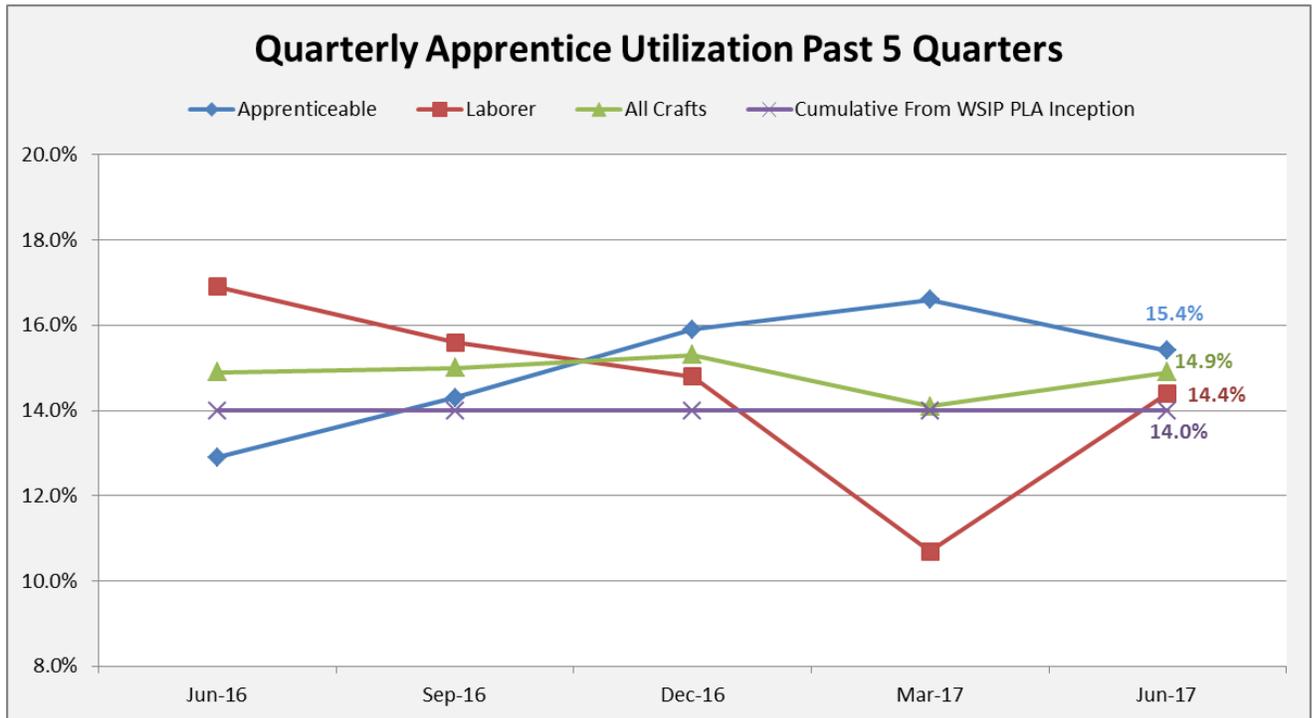
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The table below lists the WSIP PLA-covered Projects *sorted by Percentage of Apprentice Utilization* from highest to lowest. The total Apprentice Utilization for the entire WSIP is 14%. This is slightly higher than the 13.4% mentioned in the *Apprentice 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 June 30, 2017											
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%
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-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-2798 - San Francisco	8,645	1,729	-	6,916	8,645	611	1,640	2,251	35.3%	23.7%	26.0%
WD-2641R - Habitat Rese	44,018	7,406	52	36,561	43,966	1,467	7,755	9,222	19.8%	21.2%	21.0%
DB-116 - Tesla Treatment	141,910	97,738	1,863	42,310	140,047	16,580	10,411	26,991	17.0%	24.6%	19.3%
WD-2652 - Bioregional Ha	110,655	19,428	3,086	88,140	107,568	1,492	19,170	20,661	7.7%	21.7%	19.2%
WD-2727 - Peninsula Pipe	69,772	30,072	3,583	36,117	66,189	4,312	7,547	11,858	14.3%	20.9%	17.9%
WD-2552 - Alameda Siph	129,485	75,401	8,009	46,075	121,476	11,667	9,053	20,720	15.5%	19.6%	17.1%
WD-2668 - Regional Grou	135,349	87,567	939	46,842	134,410	16,756	6,029	22,785	19.1%	12.9%	17.0%
WD-2575 - San Antonio B	75,263	45,723	1,151	28,389	74,112	6,488	5,972	12,460	14.2%	21.0%	16.8%
WD-2640 - Bioregional Ha	10,621	4,487	813	5,321	9,809	701	914	1,615	15.6%	17.2%	16.5%
WD-2539 - University Mou	187,032	106,332	1,199	79,502	185,834	23,851	6,500	30,350	22.4%	8.2%	16.3%
WD-2629 - Seismic Upgra	135,960	74,264	1,729	59,968	134,232	8,356	13,525	21,881	11.3%	22.6%	16.3%
WD-2651R - Peninsula 20	22,569	4,777	3,239	14,554	19,331	763	2,372	3,135	16.0%	16.3%	16.2%
WD-2573 - Pulgas Balanc	50,367	35,362	310	14,695	50,056	7,144	673	7,817	20.2%	4.6%	15.6%
WD-2582 - Sunol Valley V	462,447	293,884	13,009	155,554	449,438	49,266	19,350	68,616	16.8%	12.4%	15.3%
HH-914R - Roselle Crossc	12,859	7,968	163	4,729	12,697	1,384	559	1,943	17.4%	11.8%	15.3%
WD-2596 - Harry Tracy W	1,013,917	674,623	40,826	298,468	973,091	108,428	35,995	144,423	16.1%	12.1%	14.8%
WD-2600 - Regional Grou	6,088	-	4,027	2,061	2,061	-	296	296	0.0%	14.3%	14.3%
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-2551 - Calaveras Dam	1,116,316	621,264	30,082	464,970	1,086,234	69,624	82,292	151,917	11.2%	17.7%	14.0%
WD-2729 - Fish Passage	60,475	33,213	4,430	22,833	56,046	5,553	2,270	7,823	16.7%	9.9%	14.0%
WD-2556 - Baden and Sar	19,939	11,046	344	8,550	19,595	951	1,788	2,738	8.6%	20.9%	14.0%
WD-2531 - Bay Division P	583,318	164,684	339,239	79,394	244,078	14,153	18,238	32,391	8.6%	23.0%	13.3%
WD-2504 - Stanford Heigh	74,300	40,450	-	33,851	74,300	9,134	757	9,891	22.6%	2.2%	13.3%
WD-2513 - San Andreas F	83,503	28,638	11,956	42,909	71,547	3,994	5,317	9,311	13.9%	12.4%	13.0%
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-2621R - San Francis	46,774	28,509	-	18,265	46,774	3,953	1,854	5,807	13.9%	10.2%	12.4%
WD-2566 - San Antonio P	14,916	8,241	137	6,539	14,780	859	939	1,798	10.4%	14.4%	12.2%
HH-935C - San Joaquin P	144,012	89,198	1,840	52,974	142,172	8,862	8,401	17,263	9.9%	15.9%	12.1%
WD-2601 - Crystal Spring	489,176	300,936	57,401	130,839	431,775	37,806	10,916	48,722	12.6%	8.3%	11.3%
WD-2555 - Crystal Spring	127,805	49,126	9,741	68,938	118,064	7,559	5,394	12,953	15.4%	7.8%	11.0%
WD-2469 - Forest Knolls F	26,553	17,167	49	9,337	26,504	2,888	19	2,907	16.8%	0.2%	11.0%
WD-2548 - Lake Merced F	101,050	72,283	2,264	26,504	98,786	10,670	137	10,807	14.8%	0.5%	10.9%
HH-935A - San Joaquin P	84,483	53,744	839	29,900	83,644	5,357	3,652	9,009	10.0%	12.2%	10.8%
HH-935B - San Joaquin P	100,492	52,969	11,926	35,598	88,566	4,061	5,243	9,304	7.7%	14.7%	10.5%
WD-2541 - Bay Division P	208,255	89,103	12,808	106,345	195,448	10,026	10,170	20,196	11.3%	9.6%	10.3%
WD-2501 - Alermany Pump	74,085	54,295	48	19,741	74,037	7,403	223	7,625	13.6%	1.1%	10.3%
WD-2542 - Bay Division P	288,044	90,616	31,498	165,930	256,546	7,049	19,161	26,210	7.8%	11.5%	10.2%
WD-2568 - BDPL Nos. 3&	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	98,656	40,891	1,323	56,442	97,333	4,833	3,853	8,685	11.8%	6.8%	8.9%
WD-2665 - Bay Division P	21,967	10,548	234	11,185	21,733	168	1,741	1,909	1.6%	15.6%	8.8%
WD-2581 - New Livingston T	730,584	546,878	99,798	83,908	630,786	31,860	19,891	51,750	5.8%	23.7%	8.2%
WD-2666 - Bioregional Ha	23,492	16,708	336	6,448	23,156	228	1,615	1,843	1.4%	25.0%	8.0%
WD-2654R - Peninsula Ve	16,389	3,005	176	13,208	16,213	8	1,236	1,244	0.3%	9.4%	7.7%
WD-2589 - Supervisory Cc	1,498	728	-	771	1,498	115	-	115	15.8%	0.0%	7.7%
WD-2623 - Harding Park F	22,727	7,869	456	14,403	22,271	696	949	1,645	8.8%	6.6%	7.4%
WD-2543 - North Universi	53,265	14,383	7,082	31,800	46,183	743	2,255	2,998	5.2%	7.1%	6.5%
WD-2511 - Standby Powe	11,275	9,046	-	2,230	11,275	626	-	626	6.9%	0.0%	5.6%
WD-2529 - Noe Valley Tra	22,511	6,021	2,067	14,423	20,444	-	1,133	1,133	0.0%	7.9%	5.5%
WD-2564 - Harry Tracy W	43,049	22,612	80	20,358	42,969	2,089	-	2,089	9.2%	0.0%	4.9%
WD-2776 - San Francisco	-	-	-	-	-	-	-	-	0.0%	0.0%	0.0%
WD-2809 - San Francisco	-	-	-	-	-	-	-	-	0.0%	0.0%	0.0%
WSIP - Covered by PLA	7,882,500	4,446,323	777,892	2,658,285	7,104,608	622,221	373,011	995,232	14.0%	14.0%	14.0%

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The following chart indicates quarterly Apprentice Utilization over the past five (5) quarters ending June 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 increased by 3.7%, the Apprenticeable trades decreased by 1.2% , and the Laborer and Apprenticeable crafts combined (All Crafts) show an increase of 0.8%. However, the overall cumulative percentage has remained the same.



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Jobs Training and Opportunities Program (JTOP)

As of June 30, 2017, the SFPUC and City staff has referred 628 apprentices and 356 journeypersons to WSIP PLA-covered projects from our community-based partners in Job Training Programs and through the Labor Unions. These 984 individuals represent 11.7% of the total hours worked and 8.9% of the wages earned.*

WSIP-PLA Referred Workers By Job Training and Opportunities Program						
Inception Through June 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	2.9%	3.8%	3.6%
CityBuild Referral Services	75	34,715	\$ 904,344	4.2%	3.5%	3.5%
Cypress Mandela Training Center, Inc.	51	76,407	\$ 1,862,361	2.9%	7.7%	7.1%
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	73	91,057	\$ 2,173,363	4.1%	9.1%	8.3%
Northern California Construction and Training, Inc.	7	7,256	\$ 158,831	0.4%	0.7%	0.6%
San Joaquin County Office of Ed. YouthBuild	10	16,290	\$ 351,531	0.6%	1.6%	1.3%
SFPUC	62	55,548	\$ 1,448,864	3.5%	5.6%	5.6%
Sponser	6	31,626	\$ 863,587	0.3%	3.2%	3.3%
Union	291	220,597	\$ 5,674,309	16.3%	22.2%	21.7%
Total Referred Apprentice Workers	628	579,356	\$ 14,591,904	35.1%	58.2%	56.0%
Non-Referred Apprentices	1,160	415,925	\$ 11,464,581	64.9%	41.8%	44.0%
Total Apprentices	1,788	995,280	\$ 26,056,485	100.0%	100.0%	100.0%

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	81	53,106	\$ 2,253,604	0.8%	0.8%	0.8%
Cypress Mandela Training Center, Inc.	14	14,585	\$ 485,090	0.1%	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	18,227	\$ 568,151	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	44,412	\$ 1,536,550	0.3%	0.6%	0.5%
Sponser	2	6,509	\$ 244,643	0.0%	0.1%	0.1%
Union	197	198,650	\$ 7,472,653	1.9%	2.9%	2.7%
Total Referred Journeyman Workers	356	345,888	\$ 12,894,695	3.4%	5.0%	4.6%
Non-Referred Journeypersons	10,161	6,541,460	\$ 267,677,650	96.6%	95.0%	95.4%
Total Journeypersons	10,517	6,887,348	\$ 280,572,345	100.0%	100.0%	100.0%

Total Workforce						
Total Referred Workers (J+A)	885	925,244	\$ 27,486,600	7.3%	11.7%	9.0%
All Non-Referred Workers						
All Non-Referred Workers	11,180	6,957,385	\$ 279,142,231	92.7%	88.3%	91.0%
Total Workforce	12,065	7,882,628	\$ 306,628,830	100.0%	100.0%	100.0%

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

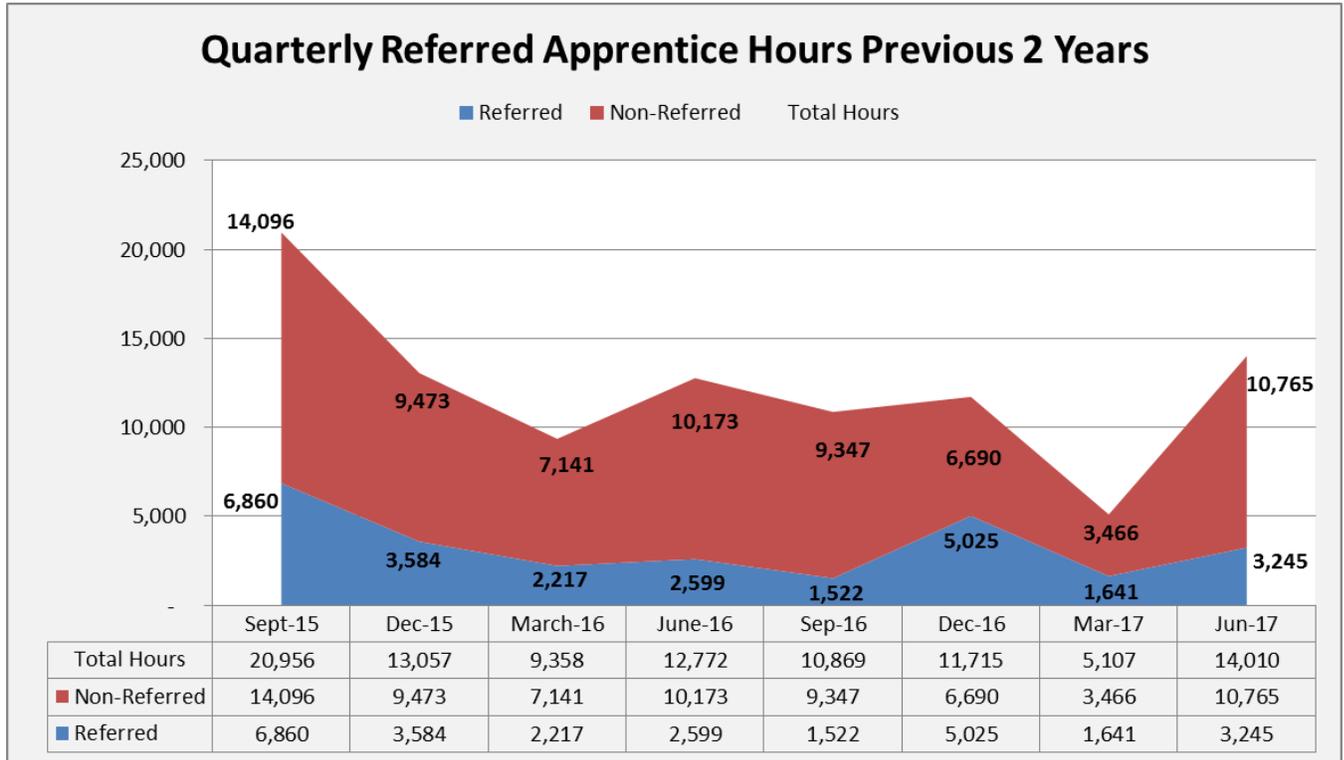
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The table below illustrates *JTOP Referred Worker Utilization by Project* with the greatest total project participation total listed first.

Referred Worker Utilization by WSIP - PLA Covered Project Inception through June 30, 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 P	1,116,316	151,917	964,400	118,496	81,834	200,330	78.0%	8.5%	17.9%
WD-2596 - Harry Tracy Water Treatment P	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 Reliabil	583,318	32,391	550,927	27,949	26,451	54,400	86.3%	4.8%	9.3%
WD-2601 - Crystal Springs / San Andreas	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 - P	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 - E	208,255	20,196	188,059	10,927	5,850	16,777	54.1%	3.1%	8.1%
WD-2539 - University Mound Reservoir No	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%
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 Divis	135,960	21,881	114,079	17,193	4,064	21,256	78.6%	3.6%	15.6%
WD-2668 - Regional Groundwater Storage	135,349	22,785	112,564	8,144	12,002	20,145	35.7%	10.7%	14.9%
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.2 P	127,805	12,953	114,853	12,193	11,757	23,950	94.1%	10.2%	18.7%
WD-2498 - New Crystal Springs Bypass (P	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 Es	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 Imp	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 Ins	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 Seis	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 Up	69,772	11,858	57,914	8,229	5,687	13,916	69.4%	9.8%	19.9%
WD-2729 - Fish Passage Facilities Within	60,475	7,823	52,652	969	1,164	2,133	12.4%	2.2%	3.5%
WD-2543 - North University Mound System	53,265	2,998	50,268	2,550	106	2,656	85.1%	0.2%	5.0%
WD-2573 - Pulgas Balancing Reservoir Str	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 Fac	47,910	4,538	43,373	2,020	185	2,205	44.5%	0.4%	4.6%
WD-2621R - San Francisco Groundwater S	46,774	5,807	40,967	1,495	186	1,681	25.7%	0.5%	3.6%
WD-2641R - Habitat Reserve Program, Ho	44,018	9,222	34,796	4,946	1,360	6,306	53.6%	3.9%	14.3%
WD-2564 - Harry Tracy Water Treatment P	43,049	2,089	40,961	1,329	211	1,540	63.6%	0.5%	3.6%
WD-2469 - Forest Knolls Pump Station an	26,553	2,907	23,646	1,961	52	2,013	67.5%	0.2%	7.6%
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 I	22,727	1,645	21,082	1,280	3,659	4,938	77.8%	17.4%	21.7%
WD-2651R - Peninsula 2011 Watershed C	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 Reliabil	21,967	1,909	20,059	1,848	1,135	2,983	96.8%	5.7%	13.6%
WD-2556 - Baden and San Pedro Valve Lo	19,939	2,738	17,201	2,069	98	2,167	75.6%	0.6%	10.9%
WD-2622 - San Francisco Groundwater Su	17,782	2,092	15,690	1,286	1,596	2,882	61.5%	10.2%	16.2%
WD-2654R - Peninsula Vegetation Remove	16,389	1,244	15,145	1,021	1,365	2,386	82.1%	9.0%	14.6%
WD-2566 - San Antonio Pump Station Upg	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, Vari	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-2798 - San Francisco Westside Recy	8,645	2,251	6,394				0.0%	0.0%	0.0%
WD-2600 - Regional Groundwater Storage	6,088	296	5,792	296		296	100.0%	0.0%	4.9%
WD-2589 - Supervisory Control and Data A	1,498	115	1,383				0.0%	0.0%	0.0%
Total WSIP PLA	7,882,500	995,232	6,887,268	579,340	345,888	925,228	58.2%	5.0%	11.7%

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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 3,245 referred hours during the quarter, referred apprentices represented 23% 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.

14,207 pre-employment tests have been administered as of June 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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WSIP - Covered by PLA (50 Projects + AMI) Substance Abuse Testing Summary	
Tests Administered to Individuals Cleared to Work Through 06/30/2017	
Project	Number Cleared
WD-2596 - Harry Tracy Water Treatment Plant Long-Term Improvements	2,401
WD-2551 - Calaveras Dam Replacement Project	1,659
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	245
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-2469 - Forest Knolls Pump Station and Storage Tank Upgrade	115
WD-2555 - Crystal Springs Pipeline No.2 Replacement Project	98
WD-2564 - Harry Tracy Water Treatment Plant - Short Term Improvements Phases 2 and 3	95
WD-2621R - San Francisco Groundwater Supply Well Stations	96
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-2729 - Fish Passage Facilities Within The Alameda Creek Watershed	89
WD-2623 - Harding Park Recycled Water Project	65
WD-2651R - Peninsula 2011 Watershed Compensation, Sherwood Point, Adobe Gulch Creek, Skyline Quarry, Skyline Blvd. Point	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	-
Total Cleared	14,207

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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.