

# VM Program Overview

October 7, 2021

# 2021 QC Mileage Productivity

## 2021 QC Mileage Targets

Month	HFRA & Non-HFRA				HFRA				Non-HFRA			
	Goal	Actual	Plus Delta	% to 8145	Goal	Actual	Plus Delta	% to 6125	Goal	Actual	Plus Delta	% to 2020
January	678.75	755	76.25	9.3	510.4	679	168.6	11.0	168.3	74	94.3	3.6
February	1357.50	1854	496.50	22.7	1020.8	1452	431.2	23.7	336.6	400	63.4	19.8
March	2036.25	2415	378.75	29.6	1531.2	1803	271.8	29.4	504.9	610	105.1	30.2
April	2715.00	3066	351.0	37.6	2041.6	2321	279.4	37.8	673.2	737	63.8	36.4
May	3393.75	4016	622.25	49.3	2552.0	3052	500.0	49.8	841.5	954	112.5	47.2
June	4072.50	4601	528.50	56.4	3062.4	3503	440.6	57.1	1009.8	1065	55.2	52.6
July	4751.25	5238	486.75	64.3	3572.8	4063	490.2	66.4	1178.1	1142	36.0	56.5
August	5430.00	6438	1008.0	79.0	4083.2	4672	588.8	76.2	1346.4	1731	384.6	85.7
September	6108.75	7308	1199.25	89.7	4593.6	5303	709.4	86.6	1514.7	2005	490.3	99.3
October	6787.50				5104.0				1683.0			
November	7466.25				5614.4				1851.3			
December	8145.00				6125.0				2020.0			

- Goal/Actual columns are “cumulative miles”
- 2021 QC Plan mileage target is 8145 circuit miles:  $8145 \text{ miles} \div 12 \text{ months} = 678.75 \text{ miles per month}$
- Compliance QC is currently fully staffed at 26 FTE (20 field, 2 QC for verification of remediations, 4 field supervisors)
- $8145 \text{ miles} \div 20 \text{ inspectors} = 407.25 \text{ miles per year per inspector}$ , ( $407.25 \div 220 \text{ days} = 1.851 \text{ miles per day}$ )

# RCD / CCD Performance – 2021 3 Months rolling & YTD

RCD CONFORMANCE % – OVERALL VM PROGRAM				
	July	August	September	YTD
T & D	98.89	99.27	99.02	99.22
Transmission	97.73	99.83	92.08	98.16
Distribution	99.01	99.23	99.30	99.28
RCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	98.68	99.22	98.91	99.16
Transmission	97.52	99.66	87.64	97.14
Distribution	98.85	99.20	99.31	99.25
RCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	99.37	99.42	99.41	99.49
Transmission	99.58	99.90	98.87	99.55
Distribution	99.36	99.35	99.43	99.49

RCD = Regulation Clearance Distance    NIP = No QC Inspections Performed    Transmission RCD incorporates Sag & Sway

CCD CONFORMANCE % – OVERALL VM PROGRAM				
	July	August	September	YTD
T & D	96.35	96.72	96.90	96.33
Transmission	97.28	99.46	88.82	95.96
Distribution	96.27	96.50	97.23	96.36
CCD CONFORMANCE % – PRUNING CONTRACTORS				
T & D	96.96	97.68	98.13	96.86
Transmission	97.52	99.66	87.42	93.97
Distribution	96.88	97.59	98.51	96.99
CCD CONFORMANCE % – INSPECTION CONTRACTORS				
T & D	97.23	97.45	97.68	97.62
Transmission	99.38	99.90	96.98	99.23
Distribution	97.13	97.12	97.71	97.52

QC Tier 1 CCD Metric

CCD = Compliance Clearance Distance    NIP = No QC Inspections Performed    Transmission CCD incorporates Sag & Sway

AQL RCD = 100%  
AQL CCD = 95%

< 90%	90% to < 95%	95% to < 97%	97% to < 98%	98% to < 99%	99% to 100%
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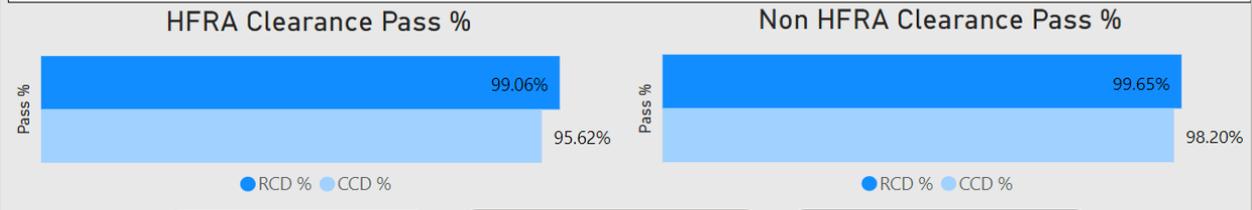
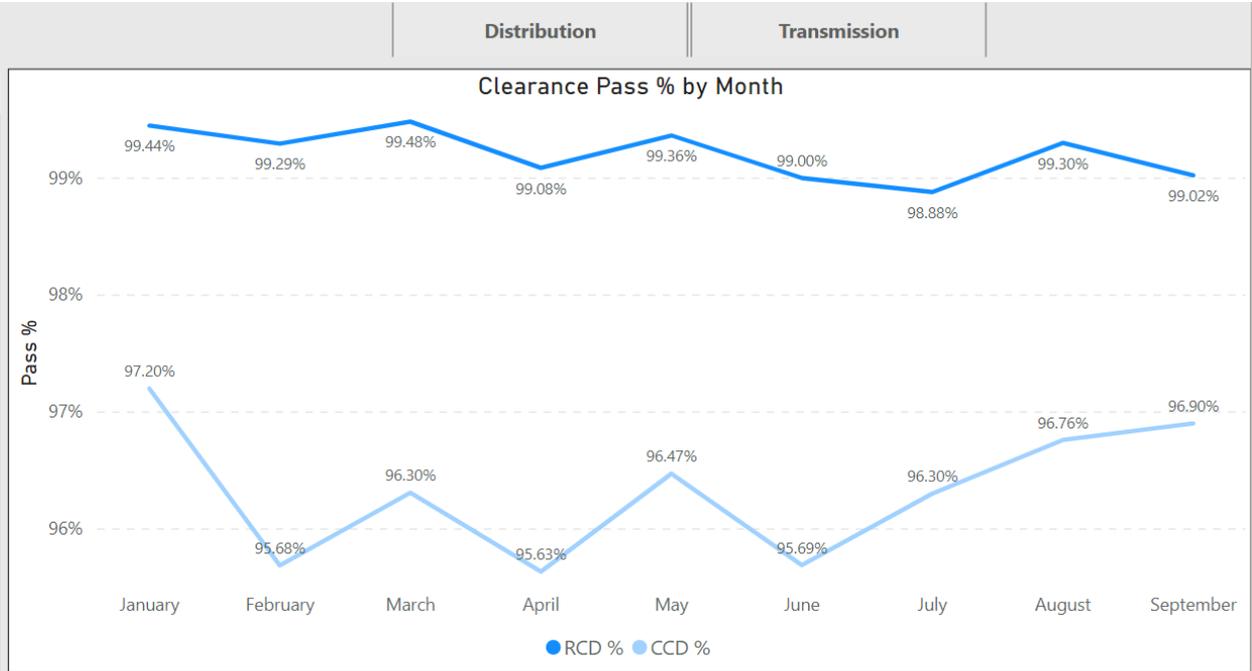
NOTE: RCD and CCD results indicate tree condition clearance at time of QC, not at time of trim

# YTD VM Performance – Transmission & Distribution

VM Lead: Bill

### Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
San Joaquin	5148	99.98%	99.69%
Wildomar	13850	99.98%	99.47%
29-Palms	2112	99.91%	99.01%
Big Creek	1047	99.90%	99.43%
Huntington Beach	1767	99.89%	99.21%
Tehachapi	3054	99.87%	99.67%
Whittier	5291	99.87%	98.79%
Bishop/Mammoth	6403	99.83%	99.27%
Ontario	9337	99.82%	98.70%
Menifee	17901	99.79%	98.79%
Palm Springs	2155	99.72%	98.79%
Victorville	3180	99.72%	95.85%
Santa Monica	4729	99.64%	97.97%
Santa Ana	1373	99.64%	98.91%
Kernville	9527	99.63%	96.66%
Antelope Valley	8971	99.60%	97.06%
Compton	2376	99.54%	98.61%
Covina	16886	99.53%	97.97%
Ventura	19668	99.30%	96.47%
Arrowhead	27971	98.97%	94.36%
Thousand Oaks	21297	98.96%	96.05%
South Bay	10584	98.95%	94.63%
Long Beach	3082	98.80%	92.76%
Monrovia	17887	98.68%	92.92%
Foothill	3866	98.42%	95.40%
Catalina	375	98.40%	95.73%
Saddleback	2348	98.17%	90.59%
Redlands	7325	98.12%	92.79%



<b>Total Trees Inspected</b>	<b>Overall RCD Pass %</b>	<b>Overall CCD Pass %</b>
<b>255108</b>	<b>99.22%</b>	<b>96.33%</b>

AQL RCD = 100%  
AQL CCD = 95%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone		D	Compliance Zone	
	HFRA			HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4' 18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6' 3'

# YTD VM Performance – Transmission

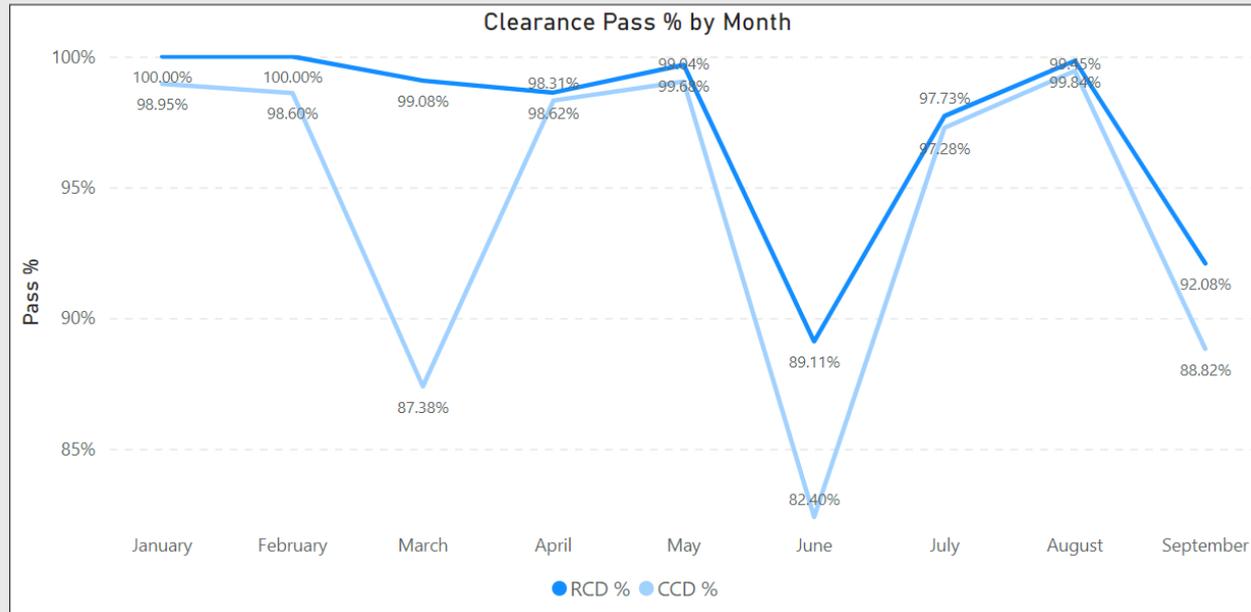
VM Lead: Bill

## Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Antelope Valley	2328	100.00%	99.36%
Menifee	134	100.00%	100.00%
Redlands	136	100.00%	97.79%
San Joaquin	1627	100.00%	100.00%
Santa Barbara	655	100.00%	100.00%
Tehachapi	236	100.00%	100.00%
Ventura	124	100.00%	100.00%
Whittier	145	100.00%	100.00%
Ontario	896	99.89%	99.78%
Valencia	730	99.73%	98.49%
South Bay	289	98.27%	92.73%
Monrovia	1285	97.98%	96.89%
Saddleback	1106	96.75%	83.27%
Thousand Oaks	742	88.41%	83.96%
Montebello	442	84.62%	79.86%

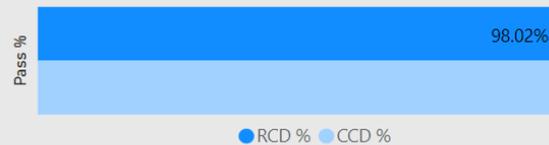
Distribution

Transmission

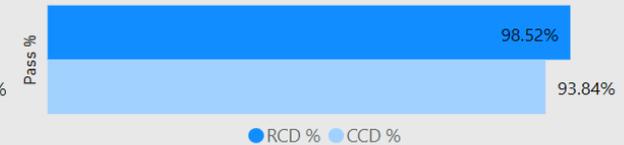


Transmission performance decline caused by UTS and their lack of understanding of LiDAR. Significant RCD performance declines were in the following districts (Montebello – 78.17%; Thousand Oaks – 89.47%; Monrovia – 92.86% and Saddleback – 95.58%). Training/discussions were conducted on 10/5/21 with Bill Ross, Dale Stansfield and two GFs to reinforce how LiDAR data is used. The decline will be discussed on the 10/8 CAPA call with UTS.

## HFRA Clearance Pass %



## Non HFRA Clearance Pass %



Total Trees Inspected

12376

Overall RCD Pass %

98.16%

Overall CCD Pass %

95.96%

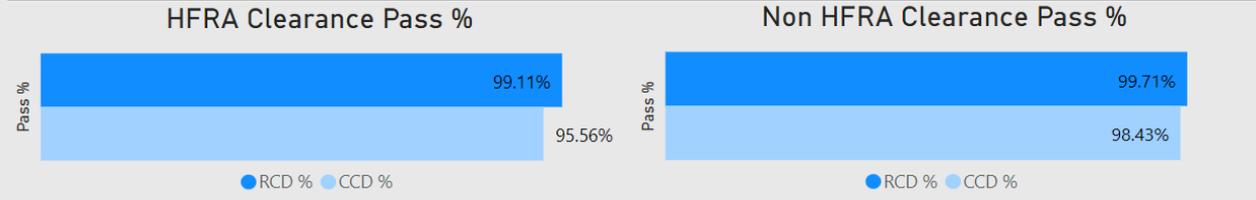
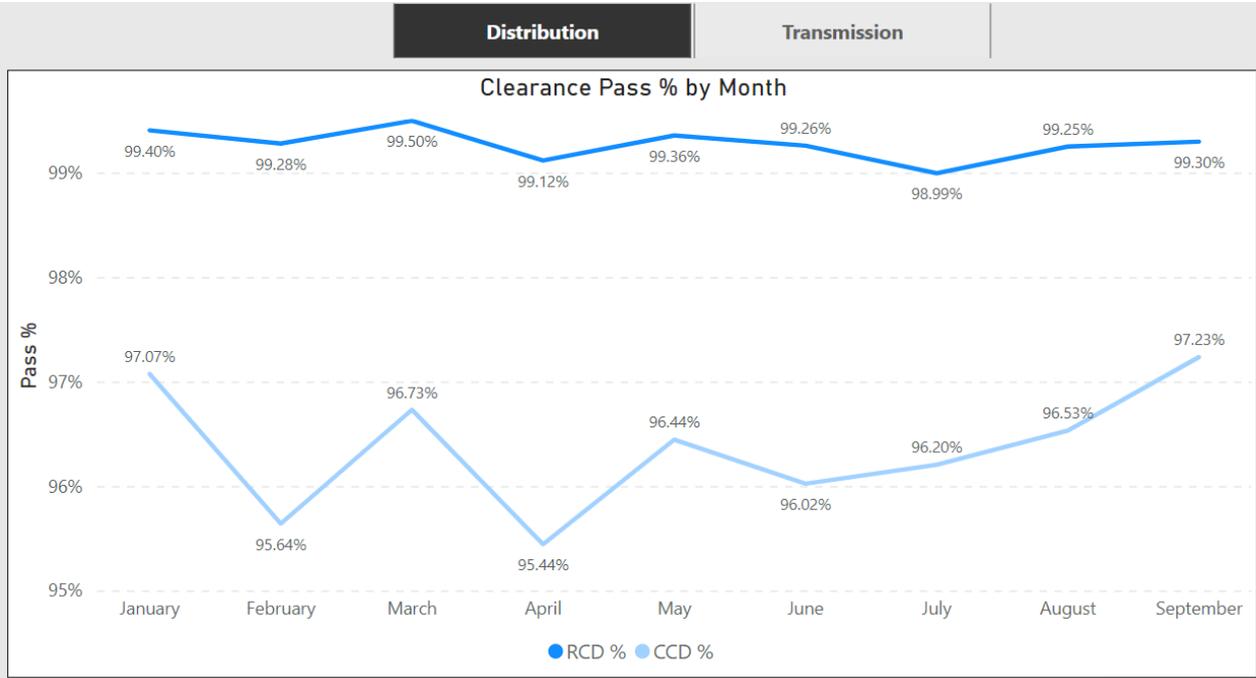
NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

AQL RCD = 100%  
AQL CCD = 95%

# YTD VM Performance – Distribution

### Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
Wildomar	13849	99.98%	99.47%
San Joaquin	3521	99.97%	99.55%
29-Palms	2112	99.91%	99.01%
Big Creek	1047	99.90%	99.43%
Huntington Beach	1767	99.89%	99.21%
Whittier	5146	99.86%	98.76%
Tehachapi	2808	99.86%	99.64%
Bishop/Mammoth	6403	99.83%	99.27%
Ontario	8441	99.81%	98.59%
Menifee	17755	99.79%	98.79%
Palm Springs	2155	99.72%	98.79%
Victorville	3180	99.72%	95.85%
Santa Monica	4729	99.64%	97.97%
Santa Ana	1373	99.64%	98.91%
Kernville	9527	99.63%	96.66%
Compton	2376	99.54%	98.61%
Covina	16886	99.53%	97.97%
Montebello	2327	99.53%	97.03%
Antelope Valley	6643	99.46%	96.25%
Saddleback	1242	99.44%	97.10%
Thousand Oaks	20555	99.34%	96.48%
Ventura	19544	99.29%	96.45%
South Bay	10292	98.97%	94.69%
Arrowhead	27971	98.97%	94.36%
Long Beach	3082	98.80%	92.76%
Monrovia	16580	98.73%	92.61%
Foothill	3866	98.42%	95.40%
Catalina	375	98.40%	95.73%



<b>Total Trees Inspected</b>	<b>Overall RCD Pass %</b>	<b>Overall CCD Pass %</b>
<b>242650</b>	<b>99.28%</b>	<b>96.36%</b>

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

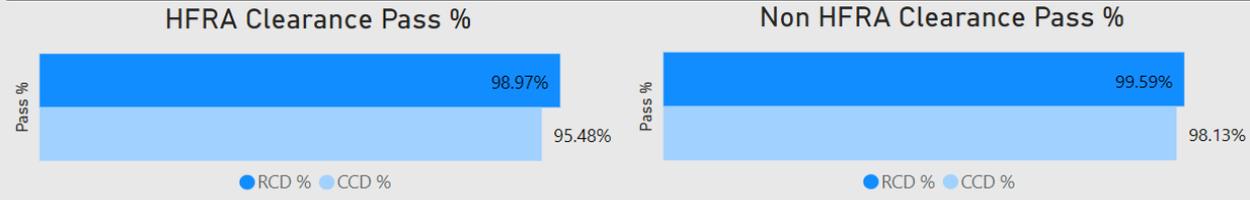
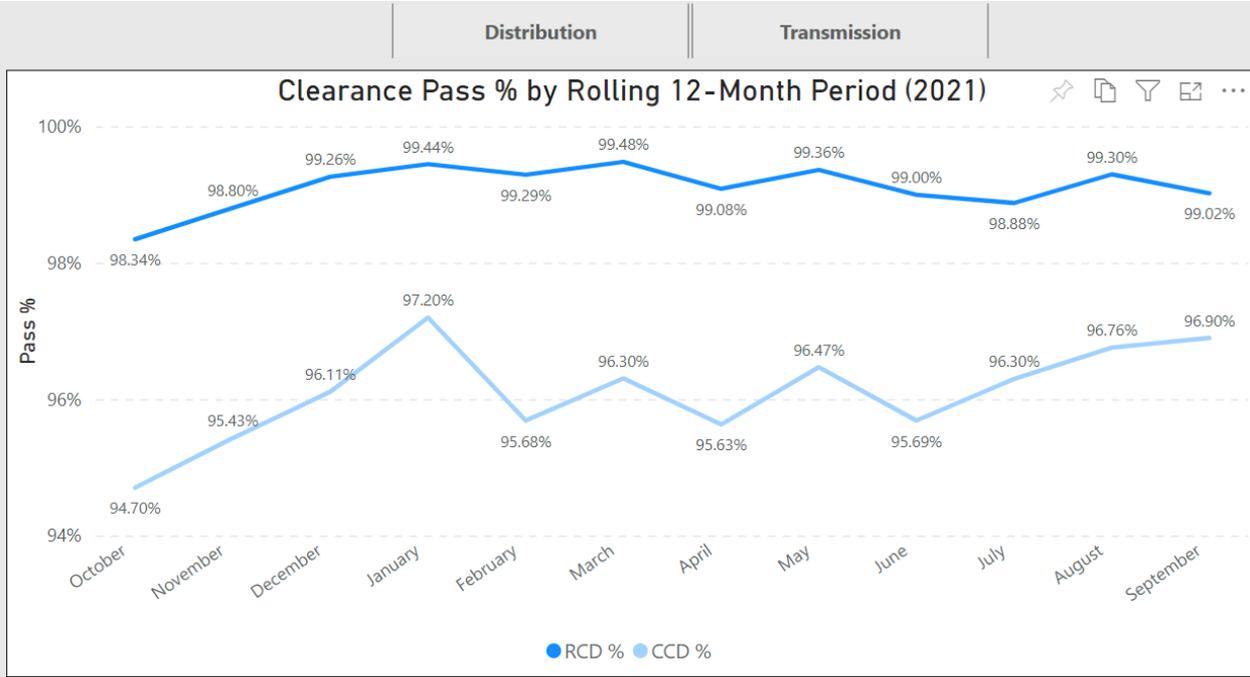
Compliance Zone	HFRA	Non-HFRA
RCD = Regulation Clearance Distance	4'	18"
CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

AQL RCD = 100%  
AQL CCD = 95%

# VM Performance – T & D (Rolling 12 months)

VM Lead: Bill

Pass % by District			
District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
Wildomar	18270	99.96%	99.32%
Whittier	6250	99.89%	98.93%
Huntington Beach	1767	99.89%	99.21%
Tehachapi	8735	99.84%	98.92%
Ontario	10305	99.84%	98.83%
Bishop/Mammoth	6403	99.83%	99.27%
Big Creek	1433	99.79%	99.37%
29-Palms	2461	99.76%	98.09%
Palm Springs	3239	99.57%	98.24%
Covina	21049	99.56%	98.06%
Antelope Valley	13612	99.52%	96.74%
Kernville	13352	99.51%	96.57%
Santa Ana	1910	99.42%	97.59%
Santa Monica	5699	99.25%	96.93%
Ventura	24820	99.23%	96.17%
Victorville	4772	99.14%	94.78%
Menifee	34786	99.11%	96.18%
Thousand Oaks	27122	99.10%	96.48%
Compton	2968	99.02%	97.91%
Arrowhead	41100	99.01%	94.15%
Redlands	14724	98.94%	95.42%
Long Beach	3226	98.82%	92.99%
Monrovia	20095	98.77%	93.46%
South Bay	14591	98.59%	94.12%
Foothill	3866	98.42%	95.40%
Catalina	375	98.40%	95.73%
Valencia	12287	98.28%	93.33%
Saddleback	2465	98.26%	90.83%
Santa Barbara	6432	97.78%	92.13%



Total Trees Inspected	Overall RCD Pass %	Overall CCD Pass %
<b>352946</b>	<b>99.11%</b>	<b>96.09%</b>

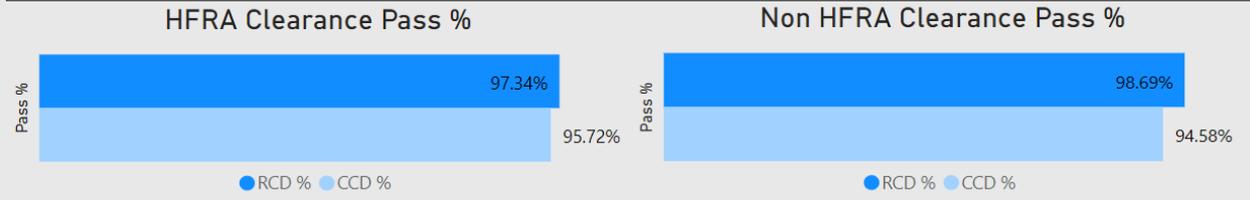
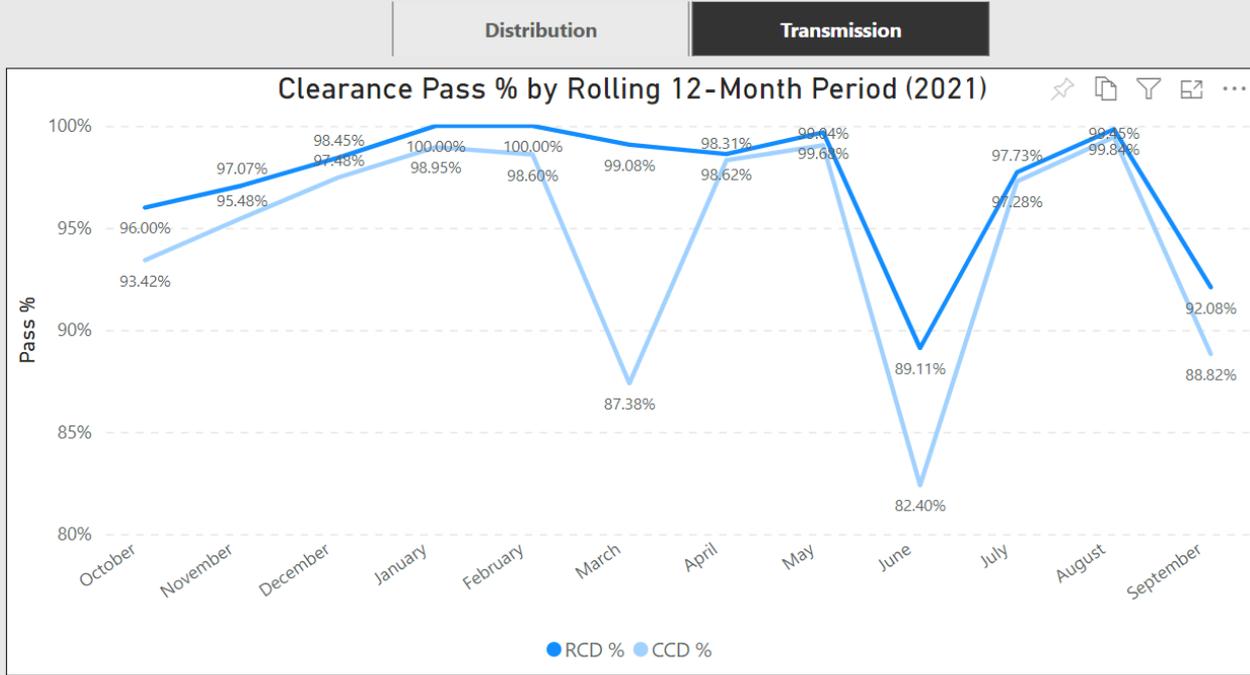
NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone	HFRA	D	Compliance Zone	HFRA	Non-HFRA
		RCD = Regulation Clearance Distance		10'		RCD = Regulation Clearance Distance
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

# VM Performance – Transmission (Rolling 12 months)

VM Lead: Bill

Pass % by District				
District	Trees Inspected	RCD Pass %	CCD Pass %	
Antelope Valley	3280	100.00%	99.24%	
Covina	263	100.00%	100.00%	
Menifee	134	100.00%	100.00%	
Redlands	136	100.00%	97.79%	
Santa Barbara	658	100.00%	100.00%	
Tehachapi	236	100.00%	100.00%	
Ventura	242	100.00%	98.76%	
Whittier	145	100.00%	100.00%	
Ontario	1852	99.95%	99.89%	
Valencia	1696	99.35%	96.93%	
Monrovia	2679	98.99%	98.36%	
South Bay	289	98.27%	92.73%	
Saddleback	1106	96.75%	83.27%	
Thousand Oaks	1460	94.11%	91.78%	
San Joaquin	3097	92.15%	88.89%	
Montebello	442	84.62%	79.86%	



Total Trees Inspected	Overall RCD Pass %	Overall CCD Pass %
20452	97.60%	95.49%

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone		D	Compliance Zone	
	HFRA			HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4'
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'
					18"
					3'

# VM Performance – Distribution (Rolling 12 months)

VM Lead: Bill

### Pass % by District

District	Trees Inspected	RCD Pass %	CCD Pass %
Fullerton	2017	100.00%	99.31%
Ridgecrest	144	100.00%	100.00%
Wildomar	18269	99.96%	99.32%
San Joaquin	5601	99.91%	99.50%
Huntington Beach	1767	99.89%	99.21%
Whittier	6105	99.89%	98.90%
Tehachapi	8489	99.84%	98.89%
Bishop/Mammoth	6403	99.83%	99.27%
Ontario	8441	99.81%	98.59%
Big Creek	1433	99.79%	99.37%
29-Palms	2461	99.76%	98.09%
Palm Springs	3239	99.57%	98.24%
Covina	20783	99.55%	98.04%
Kernville	13352	99.51%	96.57%
Saddleback	1359	99.48%	96.98%
Montebello	2881	99.44%	96.95%
Santa Ana	1910	99.42%	97.59%
Thousand Oaks	25540	99.39%	96.73%
Antelope Valley	10332	99.36%	95.94%
Santa Monica	5699	99.25%	96.93%
Ventura	24578	99.22%	96.15%
Victorville	4772	99.14%	94.78%
Menifee	34640	99.11%	96.17%
Compton	2968	99.02%	97.91%
Arrowhead	41100	99.01%	94.15%
Redlands	14579	98.93%	95.40%
Long Beach	3226	98.82%	92.99%
Monrovia	17341	98.73%	92.68%
South Bay	14196	98.58%	94.10%
Foothill	3866	98.42%	95.40%
Catalina	375	98.40%	95.73%

**Distribution**
Transmission

### Clearance Pass % by Rolling 12-Month Period (2021)

Month	RCD %	CCD %
October	98.72%	94.91%
November	98.98%	95.42%
December	99.28%	96.07%
January	99.40%	97.07%
February	99.28%	95.64%
March	99.50%	96.73%
April	99.12%	95.44%
May	99.36%	96.44%
June	99.26%	96.02%
July	98.99%	96.20%
August	99.25%	96.53%
September	99.30%	97.23%

### HFRA Clearance Pass %

RCD %	99.08%
CCD %	95.47%

### Non HFRA Clearance Pass %

RCD %	99.64%
CCD %	98.31%

Total Trees Inspected

**332412**

Overall RCD Pass %

**99.21%**

Overall CCD Pass %

**96.14%**

NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

T	Compliance Zone		D	Compliance Zone	
	HFRA			HFRA	Non-HFRA
	RCD = Regulation Clearance Distance	10'		RCD = Regulation Clearance Distance	4'
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'
					18"
					3'

# VM Performance – T & D 80%/20% (Rolling 12 months)

VM Lead: Bill

Routine & Cyclebuster - QC Results

Distribution: Transmission

Fire Risk Area: All

Tree Contractor: All

Inspection Contractor: All

Total Trees Inspected  
**213965**

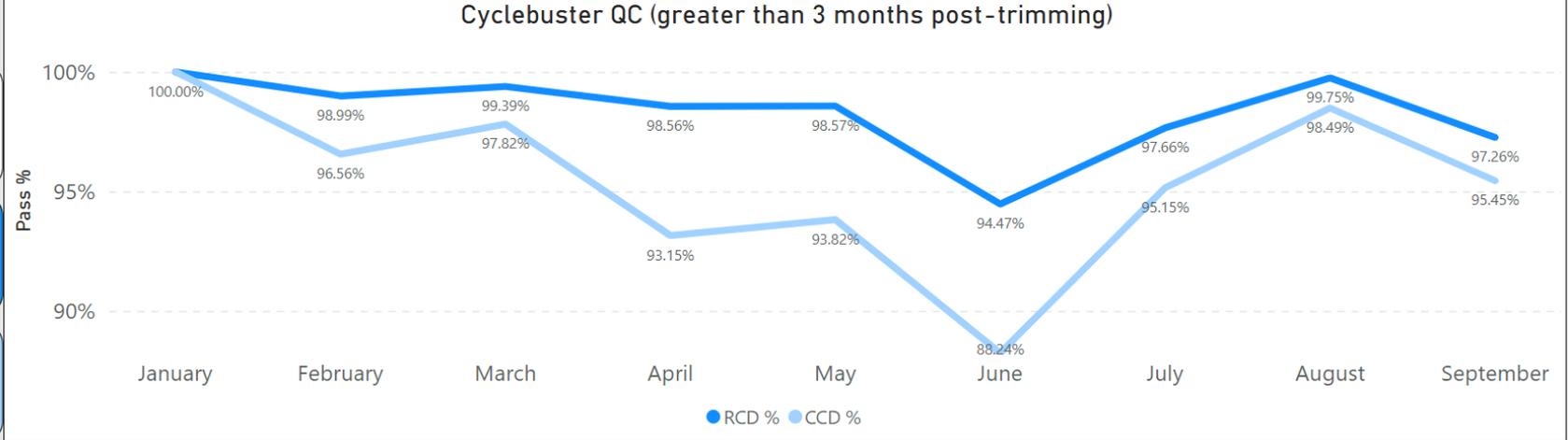
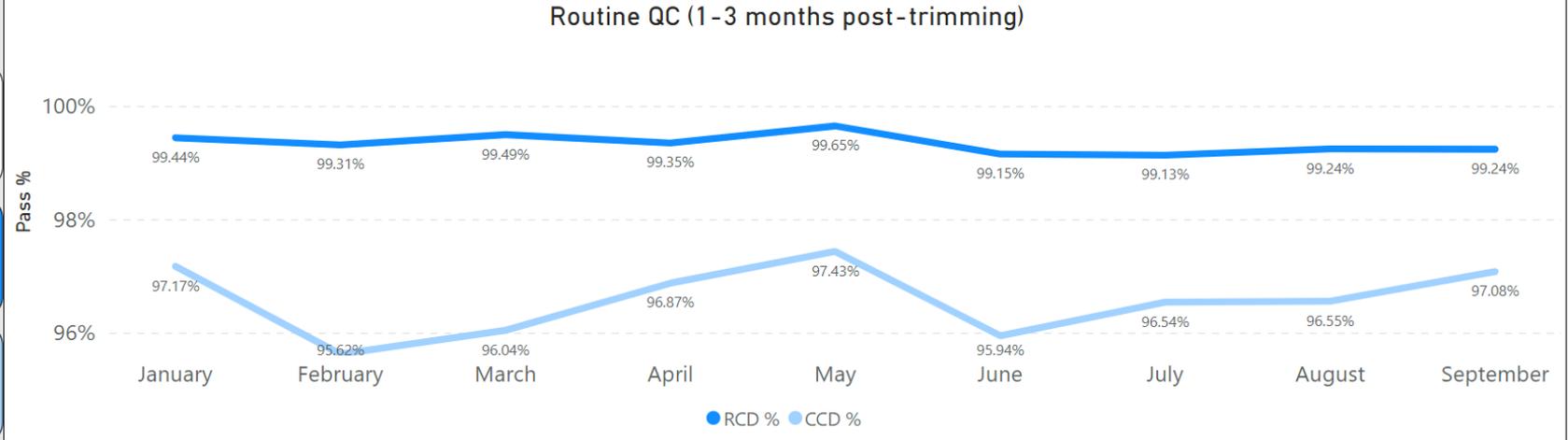
Overall RCD Pass %  
**99.33%**

Overall CCD Pass %  
**96.58%**

Total Trees Inspected  
**36862**

Overall RCD Pass %  
**98.53%**

Overall CCD Pass %  
**94.90%**



NOTE: RCD & CCD results indicate tree condition clearance at time of QC, not at time of trim

	Compliance Zone	HFRA		Compliance Zone	HFRA	Non-HFRA
T	RCD = Regulation Clearance Distance	10'	D	RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	15'		CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'

Other

# ASD – Audit Observations (Temecula and CEMA)

VM Lead: Bill

Audit	VM Actions	Due Date
TEM-1	Finalize Vegetation Management Assessment flowchart	7/30/21
TEM-1	VM will evaluate add-on and scope change data to identify trends	7/30/21
TEM-2	Multiple enhancements to Survey123/Collector have been identified by ESD and prioritized by IT to support increased visibility to VM scopes of work and to facilitate additional data collection in the field. VM will provide a list of enhancements that will be incorporated into S123/Collector with milestones, or those items deferred to ARBORA	7/30/21
TEM-2	Request to add a property line layer in S123; this layer is currently available in Fulcrum and ARBORA. As of April 29, 2021, the ESA layer is defaulting to on; however, functionality is intermittent. IT is exploring bug fixes and expects resolution by July 30, 2021.	7/30/21
TEM-3	Revise UVM -09 “inspection” to provide additional direction/instructions to inspection personnel (PIs/Notification Consultants/Customer Coordinators)	7/30/21
CEM-2	Perform a review of the discrepant invoices identified in the audit	8/27/21
TEM-1	Look for potential probable causes in trend data from add-on/scope changes	8/31/21
TEM-3	Provide training on UVM-09 to all UVM employees and contractors	9/15/21
TEM-4	Evaluate potential enhanced oversight for the invoicing process for add-ons and scope changes. 1. Enhance the existing invoice review process for scope changes. 2. Develop an escalation process with VM Operations to address large discrepancies. 3. Review the invoiced quantity for accuracy (Remove 10% threshold)	9/24/21 now 11/19/21
TEM-1	Evaluate the ongoing need to engage ESD prior to all add-ons and scope changes. Additional training will be provided to relevant personnel once the threshold for review and approvals has been determined	10/15/21
TEM-1	Determine additional process changes and training needed based on the results of the add-on/scope change trend evaluation and probable causes	10/15/21
TEM-3	Evaluate process changes needed to address oversight and/or effective review process including the need for additional resources if determined so by Observation 1	10/15/21
TEM-3	Explore/evaluate the best option and review threshold for additional oversight of the add-on and scope change process and will work with Supply Management to strengthen contract language	10/29/21
CEM-1	VM management will work with Supply Management to negotiate reduced rates for stand-by hours used in emergency operations for all its contractors	11/12/21
CEM-1	Contingent on successful negotiation of stand-by rates, VM RPPM will explore opportunities to improve the documentation associated with “start and end” of stand-by rate periods to support more accurate invoice review and approval	11/12/21
CEM-2	VM will explore additional opportunities for the review of T&E invoices and implement recommended changes. Contingent on the successful negotiation of stand-by rates, VM will explore the best approach for performing accurate reviews of invoices related to stand-by rates and implement these processes as soon as practical and the stand-by rates become effective	11/12/21
TEM-1	If ISN badging process cannot be used to verify contractor training records, VM Contract Representatives will review these records upon receipt and follow up with the relevant contractors if the records are incomplete. Process needs to be developed and implemented if ISN process is not feasible	12/15/21
TEM-2	VM will continue to partner with ESD in the development and deployment of the environmental coordination spreadsheet or other ESD-identified app as well as incorporate the ESD review, approval, and field coordination workflows into ARBORA. NOTE: VM does not have control over the development or timeline of tools created by the ESD Consultants but expects integration of these workflows into ARBORA in 4Q21	12/15/21