

In Field Instrument Review

Date Range: 2024.07.19 – 2024.09.05

Review Completed on 2024.10.07 by Kaija Swisher

Status Messages and Action Taken

100344 (Juneau PD): 1/1 Diagnostic Failed on VOCs due to pump failure. Passing VOC occurred on 9/18/24 – No action taken.

100351 (AST/Soldotna): 7/29 RFI on Subject Tests with same operator, 1/29 Pump Error on Subject Tests followed by passing subject test, operator was contacted regarding RFI messages – [100351 2024.10.04 Change in Status.](#)

100354 (Anchorage PD): 1/127 RFI on Subject Tests, 1/127 Pump Error on Subject Tests, 2/127 Interference Detected on Subject Tests, 1/127 Ambient Fail on Subject Tests. RFI, Pump Error, and Ambient Fail were all followed by passing subject tests – No action taken.

100358 (AST/Mat-Su West): 3/12 RFI on Subject Tests followed by passing subject tests – No action taken.

100365 (Skagway PD): 2/9 Internal Standard Errors on Subject Tests followed by passing subject tests. Due to upcoming preventative maintenance, instrument was removed from service – [100365 2024.09.27 Change In Status.](#)

100369 (AST/Bethel): 1/3 Tank Interference on VOCs, 1/3 Diagnostic Failed due to internal standard on VOCs. Taken out of service for preventative maintenance see [100369 2024.07.31 Change In Status.](#)

100371 (Whittier PD): 1/3 RFI on Subject Tests. Monitor for RFI Status Messages. *Recommend continued monitoring.*

100389 (AST/Fairbanks): 1/44 Pump Error on Subject Tests followed by passing subject tests – No action taken.

100392 (Homer PD): 2/16 RFI on Subject Tests, 1/16 Blank Error on Subject Tests, RFIs and Blank Error were both followed by completed subject tests – No action taken.

100400 (Bethel PD): 1/14 Interference on Subject Tests, 2/14 Tank Interference on Subject Tests, 1/14 Standard Out of Range on Subject Tests, 1/14 Ambient Fail on Subject Tests, all followed by completed subject tests – Recommend monitoring for Standard Out of Range and Tank Interference.

100402 (AST/Tok): 1/3 RFI on Subject Tests followed by passing subject test – No action taken.

100403 (Wasilla PD): 2/47 Interference Detected on Subject Tests, 1/47 Internal Standard Error on Subject Tests, all followed by passing subject tests – No action taken.

100413 (Fairbanks PD): 1/24 Pump Error on Subject Tests followed by passing subject tests – No action taken.

100414 (Glacier Bay National Park): 1/1 Diagnostic Failed on VOC due to internal standard error on 9/5, passing VOC for this period occurred on 9/17/24 – No action taken.

100415 (Anchorage PD): 1/11 Interference Detected on Subject Tests followed by passing subject tests – No action taken.

100420 (Ft. Greely): 2/5 RFI on VOCs followed by passing VOC, 1/5 Filter Wheel Error on VOCs followed by passing VOC, 1/4 Pump Error on Subject Tests “Test/Test” followed by passing test – Recommend monitoring for filter wheel errors.

100424 (Eielson AFB): 1/1 Diagnostic Failed on VOCs due to Pump Error, passing VOCs occurred on 9/18 – No action taken.

100668 (North Pole PD): 1/15 RFI on Subject Tests “Test/Test” – No action taken.

100669 (Palmer PD): 5/83 RFI on Subject Tests followed by passing subject tests, 4/83 Pump Errors on Subject Tests, 2/83 Interference Detected on Subject Tests – No action taken.

100672 (Wrangell PD): 1/6 Tank Interference on Subject Tests followed by passing subject test – No action taken.

100682 (Bristol Bay Borough PD): 1/2 Blank Error on Subject Tests followed by passing subject test – No action taken.

100689 (Dillingham PD): 1/7 RFI on Subject Tests followed by passing subject test – No action taken.

100691 (Cordova PD): 1/6 RFI on Subject Tests, 1/6 Interference Detected on Subject Tests followed by passing subject tests – No action taken.

100697 (Anchorage PD): 1/89 RFI on Subject Tests, 2/89 Blank Error on Subject Tests, 1/89 Standard Out of Range on Subject Tests, all tests followed by passing subject tests – No action taken.

100699 (Joint Base Elmendorf-Richardson): 3/25 RFI on Subject Tests, 1/25 Pump Error on Subject Tests followed by passing subject tests, 2/25 Internal Standard Error on Subject Tests followed by passing subject test, instrument removed from service – [100699 2024.10.03 Change in Status](#).

Follow Up from Previous In Field Instrument Review

100365 (Skagway PD): 2/9 Internal Standard Errors on Subject Test followed by passing subject tests. Due to upcoming preventative maintenance, instrument was removed from service – [100365 2024.09.27 Change In Status](#).

100371 (Whittier PD): 1/3 RFI on Subject tests. Monitor for RFI Status Messages. *Recommend continued monitoring.*

100382 (Petersburg PD): No status messages for this cycle – Discontinue monitoring for Static Analysis Errors.

100421 (Joint Base Elmendorf-Richardson): No status messages for this cycle – Discontinue monitoring for Blank Errors.

Agencies not included in this summary

100356 (Whittier PD - Girdwood): 1/1 Diagnostic Check failed due to pump failure on VOCs, Data retrieved from SD card at lab on 10/2/24, instrument returned to lab by agency on 9/27/24 – 100356 2024.09.05 Change in Status.

100376 (AST/St. Mary's): Does not upload and no response on request for files. VOC from 07/18/2024 and 09/05/2024 are needed, VOC from 05/30/2024 is on file.

100381 (AST/Talkeetna): Instrument cannot currently upload, datafiles not sent at this time. Last VOC on file is from 06/04/2024. No breath test records since agency received instrument. Instrument was not able to upload as of 02/22/2024. - Recommend removing from service due to lack of use and connectivity.

100675 (AST/Angoon): Instrument cannot currently run VOCs due to Internal Standard error on VOC from 07/18/2024. Last VOC upload 05/30/2024. No breath test records since agency received instrument. There is currently no agency breath supervisor or operator at this location.

Subject Test Data

Serial Number	Total Subject Tests	Date Range						Total Tests						Diagnostic Failed	Total Codes							
		RFI	Pump Error	Interference	Tank Interference	Blank Error	Standard Out of Range	Gas Flow Error	Ambient Fail	Internal Standard Error	Total Messages											
		7	24%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	8
100351	29	7	24%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	8
100354	127	1	1%	1	1%	2	2%	0	0%	0	0%	0	0%	0	0%	1	1%	0	0%	0	0%	5
100358	12	3	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3
100365	9	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	22%	0	0%	0	0%	2
100371	3	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100389	44	0	0%	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100392	16	2	13%	0	0%	0	0%	0	0%	1	6%	0	0%	0	0%	0	0%	0	0%	0	0%	3
100400	14	0	0%	0	0%	1	7%	2	14%	0	0%	1	7%	0	0%	1	7%	0	0%	0	0%	5
100402	3	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100403	47	0	0%	0	0%	2	4%	0	0%	0	0%	0	0%	0	0%	1	2%	0	0%	0	0%	3
100413	24	0	0%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100415	11	0	0%	0	0%	1	9%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100420	4	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100668	15	1	7%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100669	83	5	6%	4	5%	2	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	11
100672	6	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100682	2	0	0%	0	0%	0	0%	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100689	7	1	14%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100691	6	1	17%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100697	89	1	1%	0	0%	0	0%	0	0%	2	2%	1	1%	0	0%	0	0%	0	0%	0	0%	4
100699	25	3	12%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	2	8%	0	0%	0	0%	6
Total	726	27	4%	10	1%	9	1%	3	0%	4	1%	2	0%	0	0%	2	0%	5	1%	0	0%	62

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Subject Test Data

Serial Number	Total Subject Tests	Date Range										Total Tests		Total Messages		726		0.0%		Samp Chamb Low	Breath Tube High	Static Analysis Error	Total Codes
		7/19/2024		9/5/2024		Suck Back Error		Undefined Error		Filter 1 Won't Zero		0		0.0%									
		User Abort	Detector Overflow	Barometer Error	Filter Wheel Error																		
100342	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100344	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100346	9	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100347	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100351	29	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100354	127	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100358	12	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100361	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100362	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100364	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100365	9	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100366	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100367	7	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100370	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100371	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100374	5	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100378	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100379	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100380	11	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100382	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100388	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100389	44	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100390	23	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100392	16	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100398	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100400	14	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100402	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100403	47	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100404	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100405	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100412	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100413	24	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100415	11	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100417	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100418	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100420	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100665	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100667	7	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100668	15	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100669	83	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100672	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100673	15	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100676	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100680	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100681	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100682	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100684	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100689	7	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100691	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100692	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100694	11	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100696	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100697	89	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100698	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100699	25	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
100700	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0
Total	726	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0

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VOC Data

Serial Number	Total VOC Tests	RFI		Pump Error		Interference		Tank Interference		Date Range		Total Tests		Total Messages		Diagnostic Failed		Total Codes		
										7/19/2024		9/5/2024		95		7			7.4%	
										Blank Error	Standard Out of Range	Gas Flow Error	Ambient Fail	Internal Standard Error	Diagnostic Failed	Total Codes				
100344	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	1
100369	3	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	1	33%	2
100414	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	1
100420	5	2	40%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100424	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	1
Total	95	2	2%	0	0%	0	0%	1	1%	0	0%	0	0%	0	0%	0	0%	4	4%	7

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VOC Data

Serial Number	Total VOC Tests	User Abort		Detector Overflow		Barometer Error		Filter Wheel Error		Date Range		Total Tests		Total Messages		Samp Chamb Low	Breath Tube High	Static Analysis Error	Total Codes	
										7/19/2024	9/5/2024	95	1	1.1%						
100420	5	0	0%	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	1
Total	95	0	0%	0	0%	0	0%	1	1%	0	0%	0	0%	0	0%	0	0%	0	0%	1

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