

Airborne Natural Gas Inspection for Bio-Energy Washington at Cedar Hills Regional Landfill



With Pergam Technical Services LF - DL Equipment January 2021

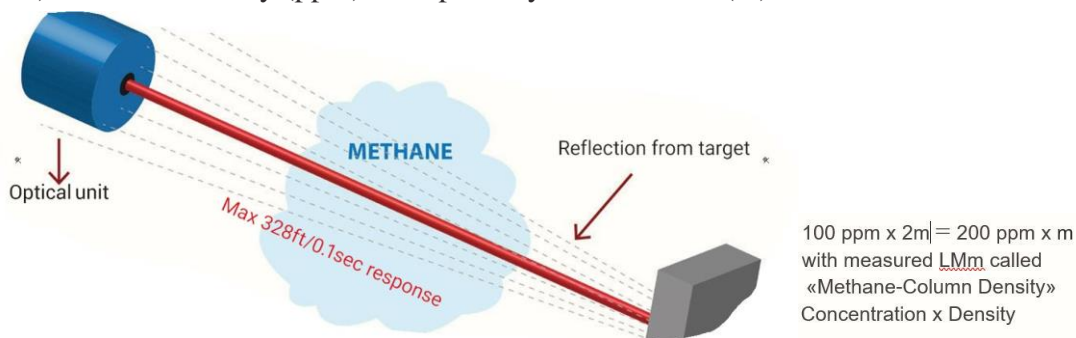
Background

On January 19th, 2021 Pergam Technical Services performed an airborne methane inspection at Cedar Hills Regional Landfill contracted by Bio Energy Washington. The Pergam Technical Services LF - DL methane detection system was mounted on a M600 Pro and flown by a part 107 certified drone pilot. The inspection covered approximately 600 acres in King County Washington.

The inspection area was broken up into 7 zones. Each zone that was inspected has a value for noise. This value will be in PPM*M and represents variation in sensor measurement without the presence of methane. Noise as it is described previously can be caused by a multitude of reasons with altitude and topography being the most impactful. While noise will introduce a certain level of error it is the delta between this ambient noise and captured methane readings that need to be considered. Per specification on the Falcon sensor taken from the manufacture's technical documentation, this value was set to 125ppm*m.

Principle of measurement

Laser Methane is based on utilization of laser absorption spectrophotometer of methane gas for gas measurement. The system detects natural gas leaks by emitting a Laser at specific wavelengths and analysing the light reflected from the ground to determine how much was absorbed by the methane in the natural gas. The measured gas volume is expressed by the methane column density (ppm-m): methane density (ppm) multiplied by the thickness (m)



All the data contained in this report is for informational purposes only. TDLAS technology does not currently meet Method 25 regulatory standards. Use report in conjunction with traditional Method approved technologies.

Flight Specifications

A Mavic Pro Gold Edition drone was used to capture images of the site before the main inspection was carried out. These images were transformed into a 2d orthomosaic. The inspection was carried out using a m600 drone equipped with a Laser Falcon sensor and SkyHub data logger known together as LF-DL. A radar altimeter was attached to enable TTF (True Terrain Following) A flight profile of 15mph at 80-100ft with a grid spacing of 60ft (zones 1,4,6) and 100ft (zones 2,3,5,7) between flight lines was maintained, respectively.

Description of LF – DL System

LF - DL, Laser Falcon – Down Link, is an instrument for remote detection from UAV's of increased methane gas concentration in ambient air (the gas cloud coming from a leak or other sources). The LF - DL is based on infrared laser technology with a tuned diode to the wavelength ~ 1650 nm of which Methane absorbs. A laser beam is emitted from the Sensor and hits a topographic object (soil, grass, trees, concrete, asphalt, etc.). The system analyzes the laser light back scatter to determine how much if any of the laser energy was absorbed by the methane in natural gas. A unique detection algorithm allows for real-time measurement of total methane content along the laser light path from the OU to the topographic object. Using UgCS desktop client, the drone can be sent along pre-planned flight path autonomously. All flight information will be saved and can be played back real-time using a built-in telemetry player. During flight, a live methane data stream can be viewed using the Custom Payload Monitor. Data will be stored in the Sky Hub data logger in the form of a text, and CSV file.

Table 1 - LF Technical Parameters

Maximum measurement distance	40 m
Measurement Sample Rate	0.1 Hz, recorded at .2Hz
Detection limits	1 – 50,000 ppm*m
Laser wavelength	1.65 µm
Laser power (Measurement)	10 mW Class 3R Wavelength: 1653 nm
Laser power (Guide Light)	5 mW Cass 3R Wavelength: 532 nm
Operating Time	Approx. 5 hours
Total weight	0.75 kG
Operating temperature range	-17 - +50 °C
Operating Humidity	30 – 90 %
Laser Beam Diameter: At 10m Altitude At 20m Altitude At 30m Altitude	0.08m 0.18m 0.27m
Flight Speed	Best Results: 2 m/s Max: 5 m/s

Table 2 – M600 Drone Technical Parameters

Dimensions	166.8 cm x 151.8 c x 72.7 cm
Max Take off Weight	15.5 kg
Weight (With TB48S Batteries)	9.5 kg
GPS Accuracy	Vertical +/- .5m Horizontal +/- 1.5m
Flight Time (With Payload)	30 min
Max Climb Rate	5 m/s
Max Sink Rate	3 m/s
Max Speed (No Wind)	65 km/h

Pictures of LF - DL Installed on M600

The LF - DL system consists of 4 parts:

- LF Sensor
- Laptop (Running UgCS and CPM)
- DL (Sky Hub data logger)
- M600 Controller (Running UgCS for DJI)



Figure 1 – m600 with LF -DL Mounted

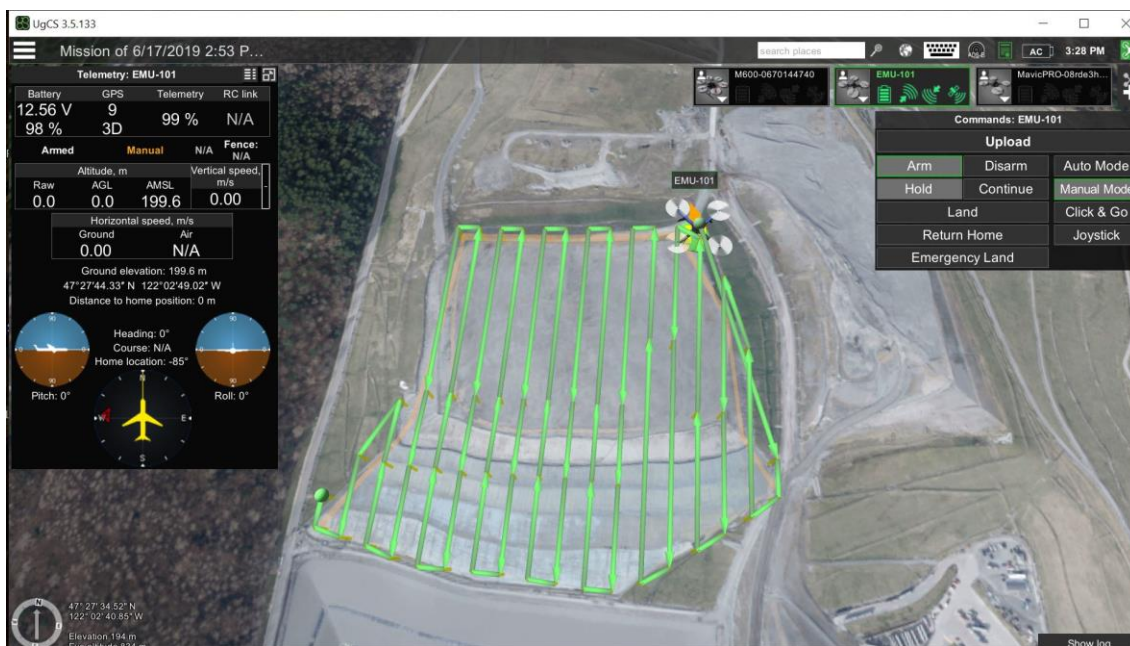


Figure 2 – UgCS desktop running on Laptop



- 1 Ethernet connector**
Communicates with Ethernet-based payloads (see [Ethernet](#))
- 2 Antenna connector**
For connecting Wi-Fi/Bluetooth antenna or antenna cable (see [Antenna](#))
- 3 12V LED (red)**
Indicates the presence of 12V power output
- 4 12V power output**
Feeds the payload (see [12V Power Output](#))
- 5 Power input**
Main power input (see [Power Input](#))

Figure 3 – Sky Hub data Logger

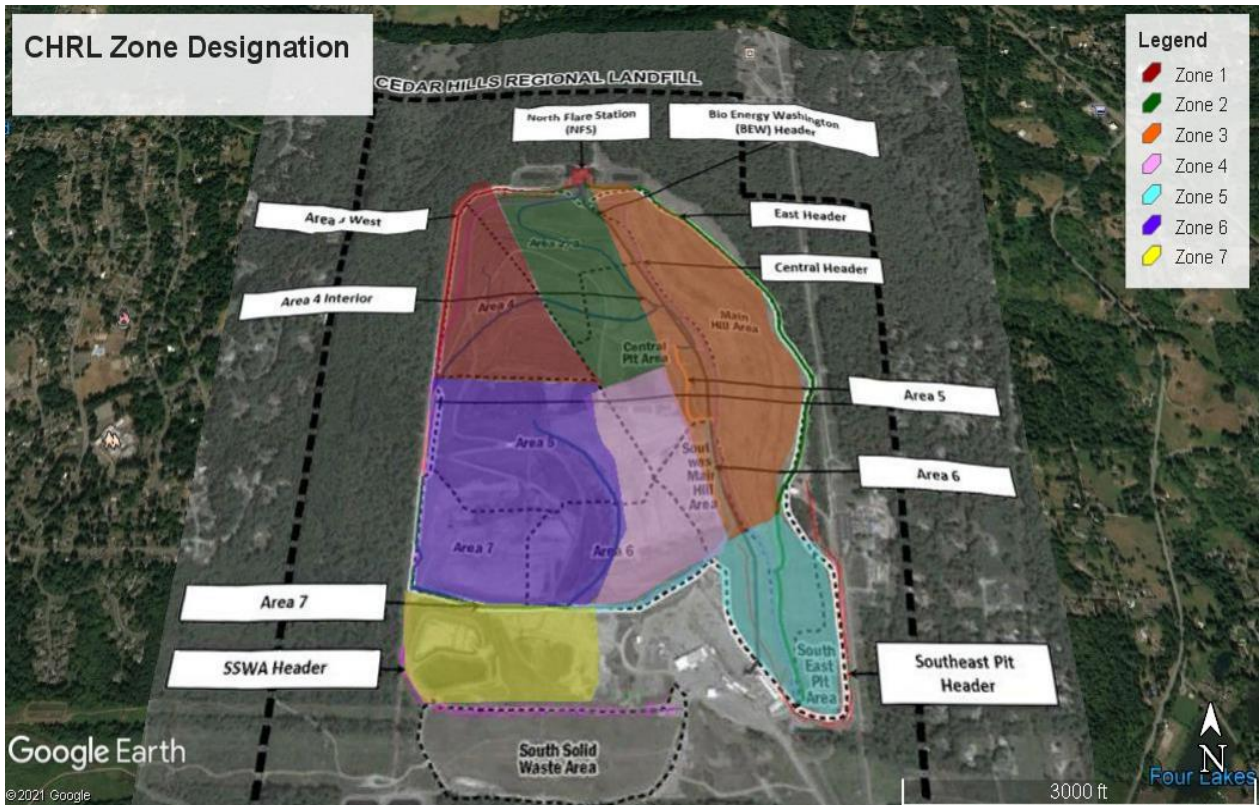


Figure 4 – Controller Running UgCS for DJI.

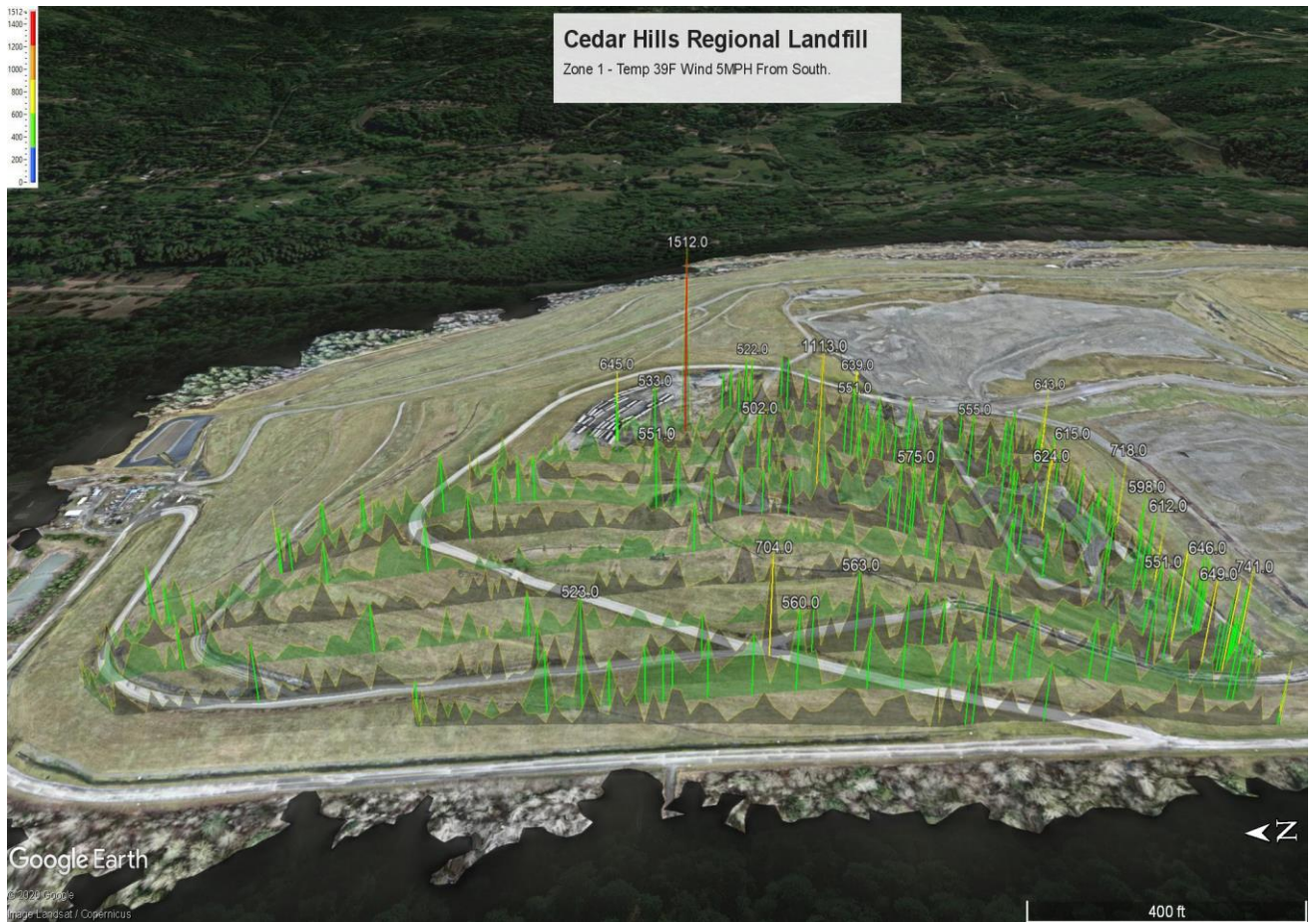
Map of Inspection Flight Paths:



Full Site with grid lines and detection values 500 PPM*M or higher



Note – Was unable to survey facility and leach field due to safety concerns.

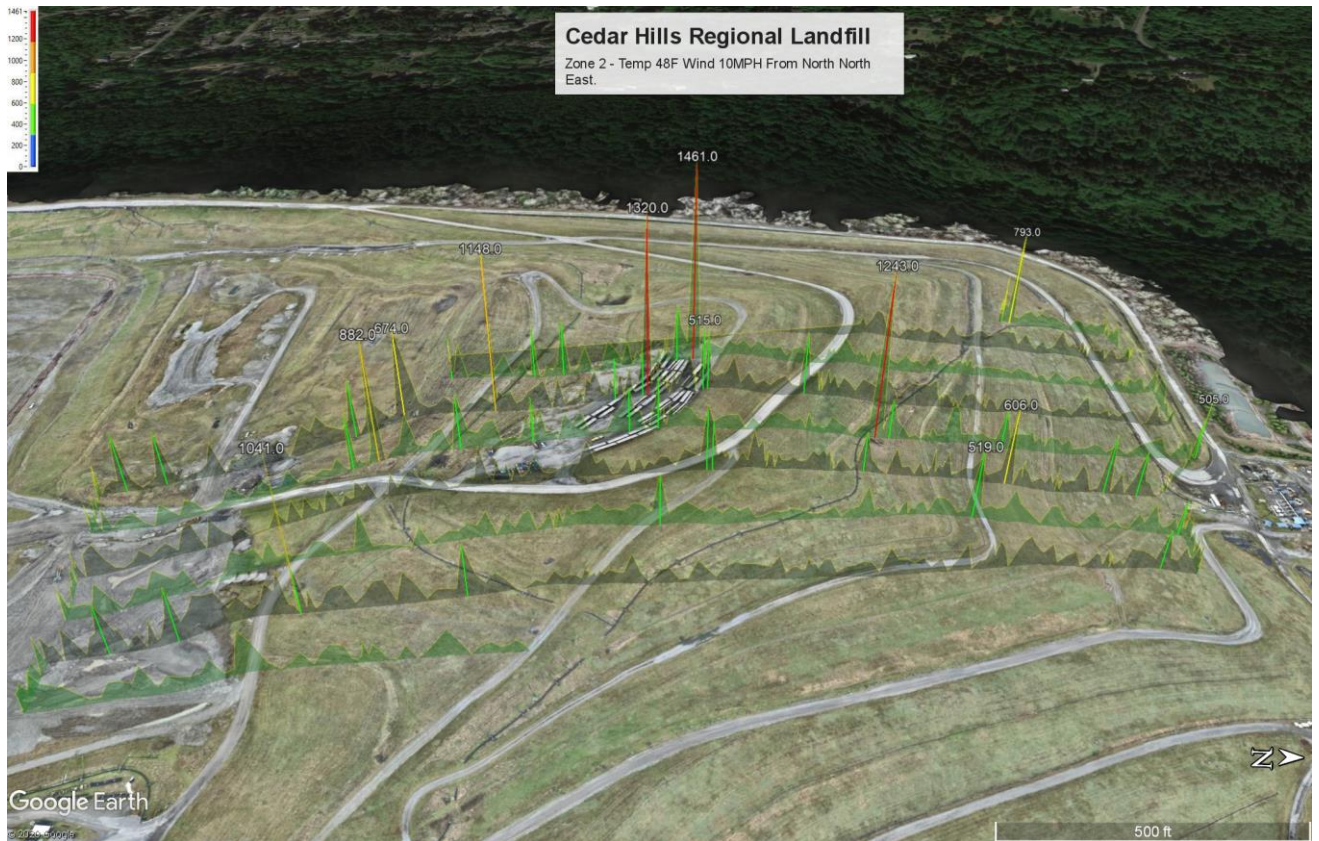


All detections 500 PPM*M and above are shown above and summarized below.

Summary of Detections

Detection	Date	Time	Latitude	Longitude	Concentration (ppm*m)
1	1/19/2021	11:38:58	47.4649983	-122.0490467	522
2	1/19/2021	11:40:03	47.462795	-122.0490467	643
3	1/19/2021	11:40:50	47.46428	-122.0494117	639
4	1/19/2021	11:41:23	47.4654933	-122.0494583	1512
5	1/19/2021	11:41:50	47.4659733	-122.049865	645
6	1/19/2021	11:42:03	47.4657167	-122.0498633	533
7	1/19/2021	11:42:39	47.4643467	-122.0498117	551
8	1/19/2021	11:42:58	47.463495	-122.0497783	555
9	1/19/2021	11:46:22	47.4650633	-122.0506367	502
10	1/19/2021	11:47:12	47.4631167	-122.0505617	615

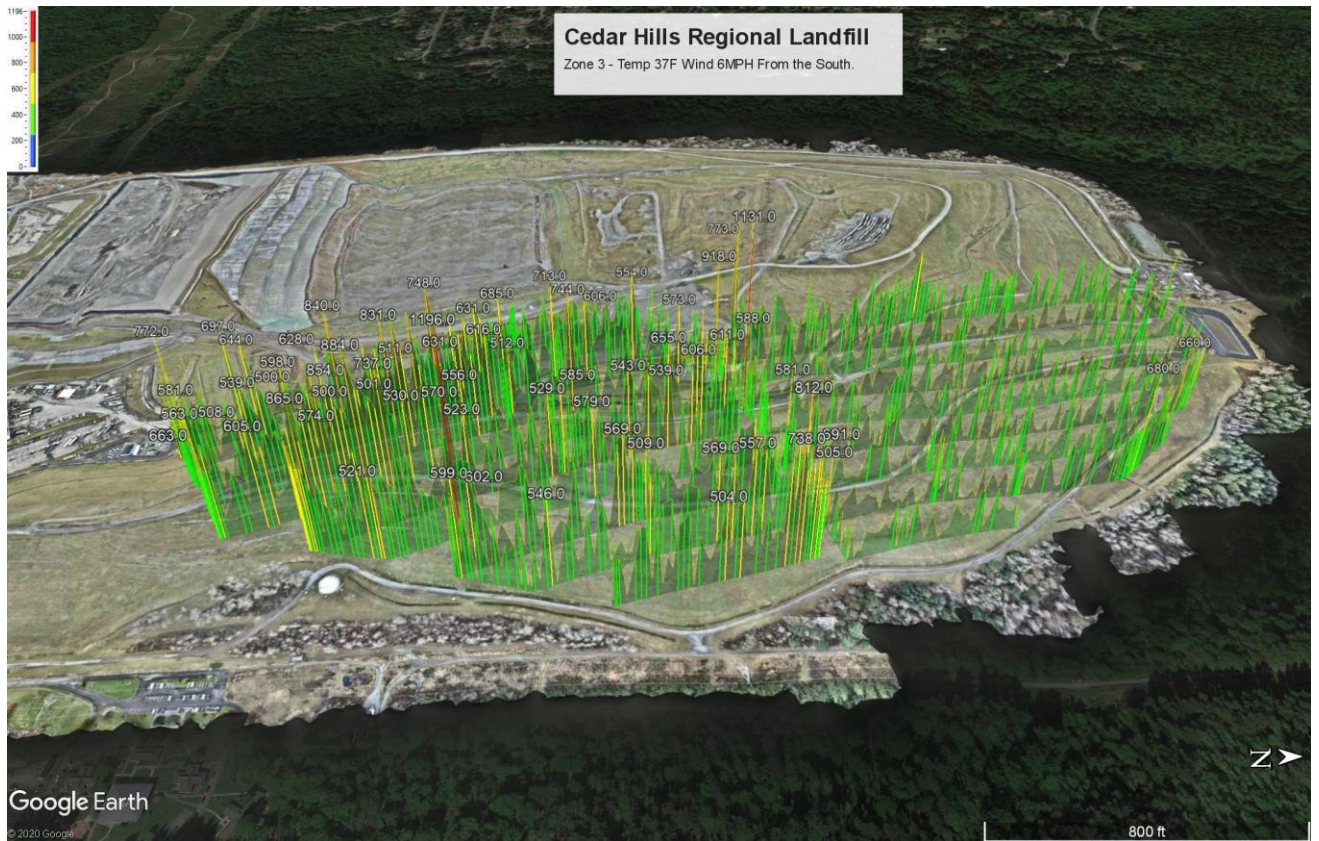
11	1/19/2021	11:47:38	47.4627433	-122.0509283	718
12	1/19/2021	11:47:55	47.46324	-122.0509667	624
13	1/19/2021	11:48:28	47.46472	-122.05102	1113
14	1/19/2021	11:48:56	47.465725	-122.0510567	551
15	1/19/2021	11:51:51	47.4642567	-122.0514033	573
16	1/19/2021	11:51:55	47.4641783	-122.0514	575
17	1/19/2021	11:52:33	47.46273	-122.051345	598
18	1/19/2021	11:52:34	47.4627233	-122.0513467	582
19	1/19/2021	11:52:49	47.46272	-122.05174	612
20	1/19/2021	11:52:53	47.4627867	-122.0517433	569
21	1/19/2021	11:58:37	47.4627	-122.0523983	534
22	1/19/2021	11:58:39	47.4627	-122.0524717	597
23	1/19/2021	11:58:44	47.4627117	-122.052535	548
24	1/19/2021	11:58:46	47.46274	-122.052535	517
25	1/19/2021	11:58:50	47.4628533	-122.0525417	646
26	1/19/2021	11:58:53	47.4629817	-122.0525467	551
27	1/19/2021	12:09:43	47.4661483	-122.053065	523
28	1/19/2021	12:10:05	47.465165	-122.0530267	704
29	1/19/2021	12:10:15	47.4647133	-122.05301	563
30	1/19/2021	12:11:03	47.4628183	-122.05294	649
31	1/19/2021	12:11:07	47.46271	-122.0529367	515
32	1/19/2021	12:11:08	47.462695	-122.052935	616
33	1/19/2021	12:11:14	47.4626733	-122.0529967	598
34	1/19/2021	12:11:15	47.4626733	-122.0530267	741
35	1/19/2021	12:12:31	47.46506	-122.0534217	560



All detections 500 PPM*M and above are shown above and summarized below.

Summary of Detections

Detection	Date	Time	Latitude	Longitude	Concentration (ppm*m)
1	1/18/2021	14:02:36.09	47.4644567	-122.0464650	1041.0
2	1/18/2021	14:05:52.09	47.4676667	-122.0479733	519.0
3	1/18/2021	14:11:03.12	47.4679450	-122.0485933	606.0
4	1/18/2021	14:12:08.12	47.4693000	-122.0495417	505.0
5	1/18/2021	14:13:16.13	47.4672383	-122.0489233	1243.0
6	1/18/2021	14:14:45.12	47.4645517	-122.0481183	882.0
7	1/18/2021	14:16:36.04	47.4646100	-122.0486767	674.0
8	1/18/2021	14:16:51.04	47.4650983	-122.0488217	1148.0
9	1/18/2021	14:17:34.05	47.4659433	-122.0490783	1320.0
10	1/18/2021	14:18:01.04	47.4662567	-122.0491733	515.0
11	1/18/2021	14:22:02.07	47.4662000	-122.0496967	1461.0
12	1/18/2021	14:32:33.07	47.4684217	-122.0514500	793.0



All detections 500 PPM*M and above are shown above and summarized below.

Summary of Detections

Detection	Date	Time	Latitude	Longitude	Concentration (ppm*m)
1	1/19/2021	9:00:36	47.46483	-122.041765	505
2	1/19/2021	9:02:21	47.46793	-122.0434517	680
3	1/19/2021	9:02:43	47.4684133	-122.0441583	660
4	1/19/2021	9:04:54	47.46455	-122.0427467	581
5	1/19/2021	9:09:50	47.4642183	-122.0437033	757
6	1/19/2021	9:09:51	47.464225	-122.0437033	1131
7	1/19/2021	9:21:07	47.4642067	-122.0453817	773
8	1/19/2021	9:43:22	47.4639467	-122.0409017	504
9	1/19/2021	9:43:34	47.4644517	-122.04116	690
10	1/19/2021	9:43:36	47.4645367	-122.0412033	738
11	1/19/2021	9:43:37	47.4645767	-122.0412233	559
12	1/19/2021	9:43:40	47.46467	-122.0412683	691

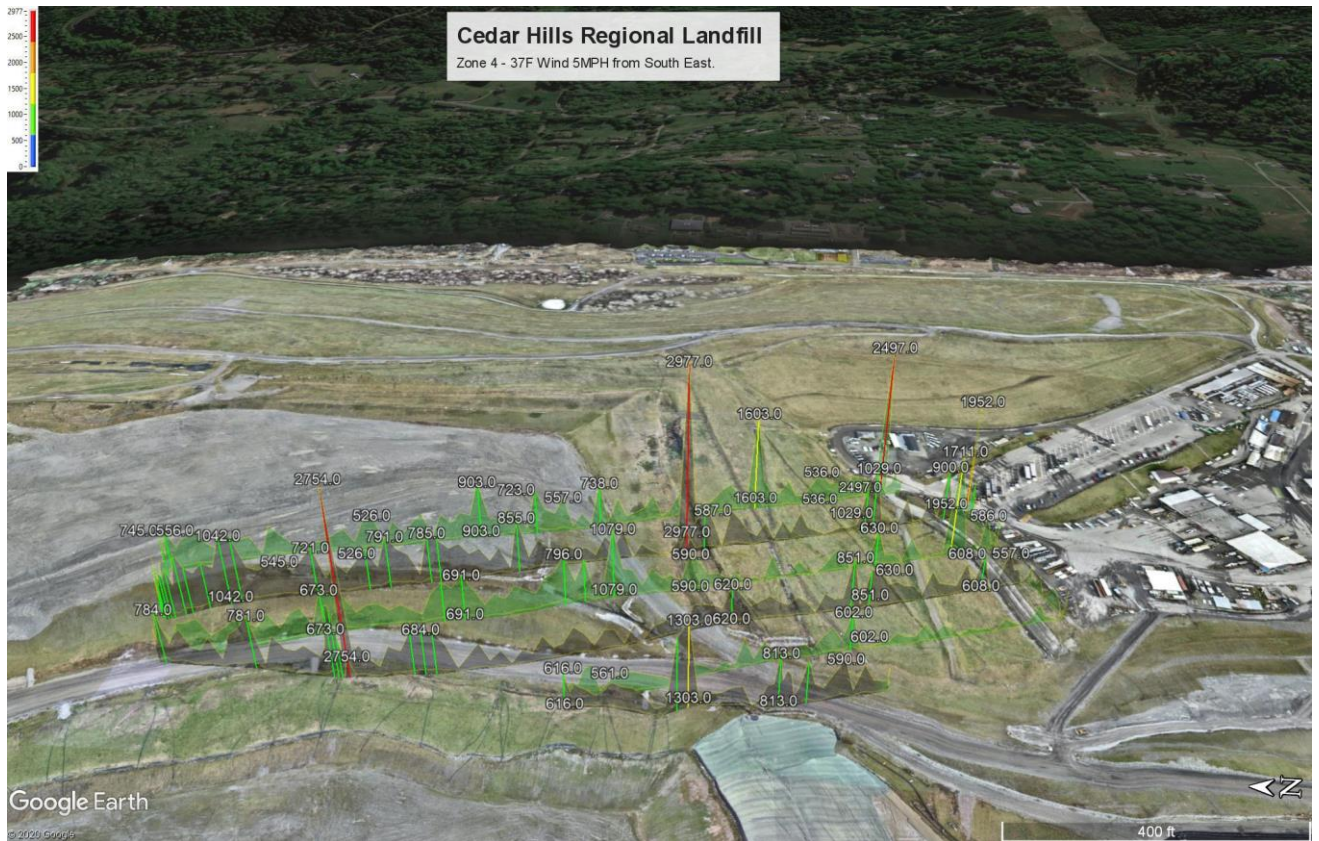
13	1/19/2021	9:43:42	47.46471	-122.04129	532
14	1/19/2021	9:43:51	47.46471	-122.0414217	670
15	1/19/2021	9:43:56	47.4646517	-122.04166	523
16	1/19/2021	9:43:59	47.4646283	-122.041755	643
17	1/19/2021	9:44:00	47.4646233	-122.041775	634
18	1/19/2021	9:44:02	47.4646217	-122.0417733	812
19	1/19/2021	9:44:08	47.464565	-122.0417717	597
20	1/19/2021	9:44:16	47.4642833	-122.0416333	502
21	1/19/2021	9:44:18	47.4641983	-122.0415917	557
22	1/19/2021	9:44:25	47.4639017	-122.04144	569
23	1/19/2021	9:45:02	47.4625683	-122.04076	546
24	1/19/2021	9:45:35	47.4618183	-122.040935	517
25	1/19/2021	9:45:36	47.4618367	-122.0409467	599
26	1/19/2021	9:45:40	47.461955	-122.0410083	602
27	1/19/2021	9:46:07	47.463095	-122.0415917	514
28	1/19/2021	9:46:08	47.4631367	-122.0416117	569
29	1/19/2021	9:46:15	47.4633183	-122.0417033	509
30	1/19/2021	9:47:50	47.4628883	-122.042045	579
31	1/19/2021	9:48:16	47.4617883	-122.041485	1196
32	1/19/2021	9:48:36	47.4611583	-122.04123	505
33	1/19/2021	9:48:38	47.46109	-122.0412483	521
34	1/19/2021	9:48:50	47.4606083	-122.0413883	522
35	1/19/2021	9:48:51	47.4605867	-122.041395	501
36	1/19/2021	9:48:53	47.460555	-122.041405	584
37	1/19/2021	9:48:54	47.4605417	-122.0414083	511
38	1/19/2021	9:48:55	47.4605417	-122.0414117	622
39	1/19/2021	9:48:56	47.460545	-122.0414117	579

40	1/19/2021	9:49:01	47.4606117	-122.041445	865
41	1/19/2021	9:49:02	47.4606367	-122.0414567	632
42	1/19/2021	9:49:31	47.4618417	-122.042075	523
43	1/19/2021	9:49:47	47.4625133	-122.042415	529
44	1/19/2021	9:49:51	47.4626183	-122.0424683	585
45	1/19/2021	9:50:08	47.463175	-122.0427533	543
46	1/19/2021	9:50:12	47.463345	-122.04284	539
47	1/19/2021	9:50:16	47.463515	-122.0429267	655
48	1/19/2021	9:50:21	47.4637267	-122.043035	527
49	1/19/2021	9:50:22	47.4637683	-122.0430567	606
50	1/19/2021	9:50:23	47.46381	-122.0430783	579
51	1/19/2021	9:50:28	47.4640167	-122.0431833	611
52	1/19/2021	9:50:44	47.4641017	-122.043435	588
53	1/19/2021	9:50:50	47.4640267	-122.0436883	535
54	1/19/2021	9:50:57	47.46395	-122.043705	918
55	1/19/2021	9:51:00	47.463865	-122.0436633	524
56	1/19/2021	9:51:55	47.461785	-122.0426067	556
57	1/19/2021	9:52:02	47.4614867	-122.0424533	570
58	1/19/2021	9:52:06	47.46132	-122.0423683	530
59	1/19/2021	9:52:10	47.461155	-122.042285	737
60	1/19/2021	9:52:12	47.46107	-122.0422417	583
61	1/19/2021	9:52:14	47.460985	-122.0421983	643
62	1/19/2021	9:52:15	47.460945	-122.0421767	884
63	1/19/2021	9:52:17	47.46086	-122.0421333	551
64	1/19/2021	9:52:18	47.46082	-122.0421133	574
65	1/19/2021	9:52:19	47.4607767	-122.0420917	507
66	1/19/2021	9:52:21	47.4606917	-122.0420483	854

67	1/19/2021	9:52:23	47.4606083	-122.0420067	527
68	1/19/2021	9:52:24	47.4605667	-122.041985	635
69	1/19/2021	9:52:26	47.4604833	-122.0419417	770
70	1/19/2021	9:52:27	47.46044	-122.04192	542
71	1/19/2021	9:52:34	47.4601467	-122.04177	605
72	1/19/2021	9:52:43	47.459815	-122.0416	559
73	1/19/2021	9:52:48	47.459775	-122.0415917	663
74	1/19/2021	9:52:56	47.4596783	-122.04183	621
75	1/19/2021	9:53:03	47.4595917	-122.0420467	563
76	1/19/2021	9:53:04	47.459595	-122.0420483	501
77	1/19/2021	9:53:17	47.4599733	-122.0422433	508
78	1/19/2021	9:53:26	47.4603533	-122.0424383	617
79	1/19/2021	9:53:30	47.4605233	-122.042525	539
80	1/19/2021	9:53:34	47.4606933	-122.0426117	500
81	1/19/2021	9:53:39	47.4609033	-122.0427183	501
82	1/19/2021	9:53:42	47.46103	-122.0427833	613
83	1/19/2021	9:53:43	47.4610733	-122.042805	519
84	1/19/2021	9:53:45	47.4611567	-122.0428483	831
85	1/19/2021	9:53:47	47.46124	-122.04289	794
86	1/19/2021	9:53:48	47.4612817	-122.0429117	621
87	1/19/2021	9:53:50	47.461365	-122.0429533	815
88	1/19/2021	9:53:51	47.4614067	-122.0429767	508
89	1/19/2021	9:53:58	47.4617017	-122.043125	550
90	1/19/2021	9:53:59	47.4617433	-122.0431467	631
91	1/19/2021	9:54:01	47.4618267	-122.04319	511
92	1/19/2021	9:54:04	47.4619533	-122.043255	616
93	1/19/2021	9:54:12	47.4621317	-122.0433467	512

94	1/19/2021	9:54:26	47.46266	-122.0436133	744
95	1/19/2021	9:54:49	47.4636267	-122.0441067	573
96	1/19/2021	9:55:40	47.462775	-122.0442333	606
97	1/19/2021	9:55:51	47.462485	-122.0440867	713
98	1/19/2021	9:56:03	47.4620367	-122.0438567	685
99	1/19/2021	9:56:07	47.4618683	-122.0437717	573
100	1/19/2021	9:56:08	47.4618267	-122.04375	631
101	1/19/2021	9:56:13	47.4616167	-122.0436417	590
102	1/19/2021	9:56:24	47.461155	-122.0434083	511
103	1/19/2021	9:56:28	47.4609883	-122.0433233	539
104	1/19/2021	9:56:36	47.460655	-122.0431533	840
105	1/19/2021	9:56:39	47.46053	-122.04309	628
106	1/19/2021	9:56:46	47.4602367	-122.04294	598
107	1/19/2021	9:56:51	47.4600267	-122.0428317	500
108	1/19/2021	9:56:54	47.4599033	-122.04277	539
109	1/19/2021	9:57:05	47.4594517	-122.0425383	581
110	1/19/2021	9:58:08	47.460545	-122.0436583	504
111	1/19/2021	9:58:10	47.4606267	-122.0437017	534
112	1/19/2021	9:58:28	47.4613783	-122.0440833	748
113	1/19/2021	9:59:16	47.4631983	-122.0450117	554
114	1/19/2021	10:01:22	47.4597133	-122.043795	644
115	1/19/2021	10:01:25	47.4595883	-122.0437317	697
116	1/19/2021	10:01:43	47.4590883	-122.0434633	772
117	1/19/2021	10:01:44	47.45909	-122.0434667	527
118	1/19/2021	10:01:46	47.4590967	-122.0434733	508
119	1/19/2021	10:01:48	47.4590983	-122.0434767	559
120	1/19/2021	10:01:49	47.4590983	-122.0434767	539

121	1/19/2021	10:02:03	47.4590967	-122.0434717	758
122	1/19/2021	10:02:25	47.4590167	-122.0434383	521



All detections 500 PPM*M and above are shown above and summarized below.

Summary of Detections

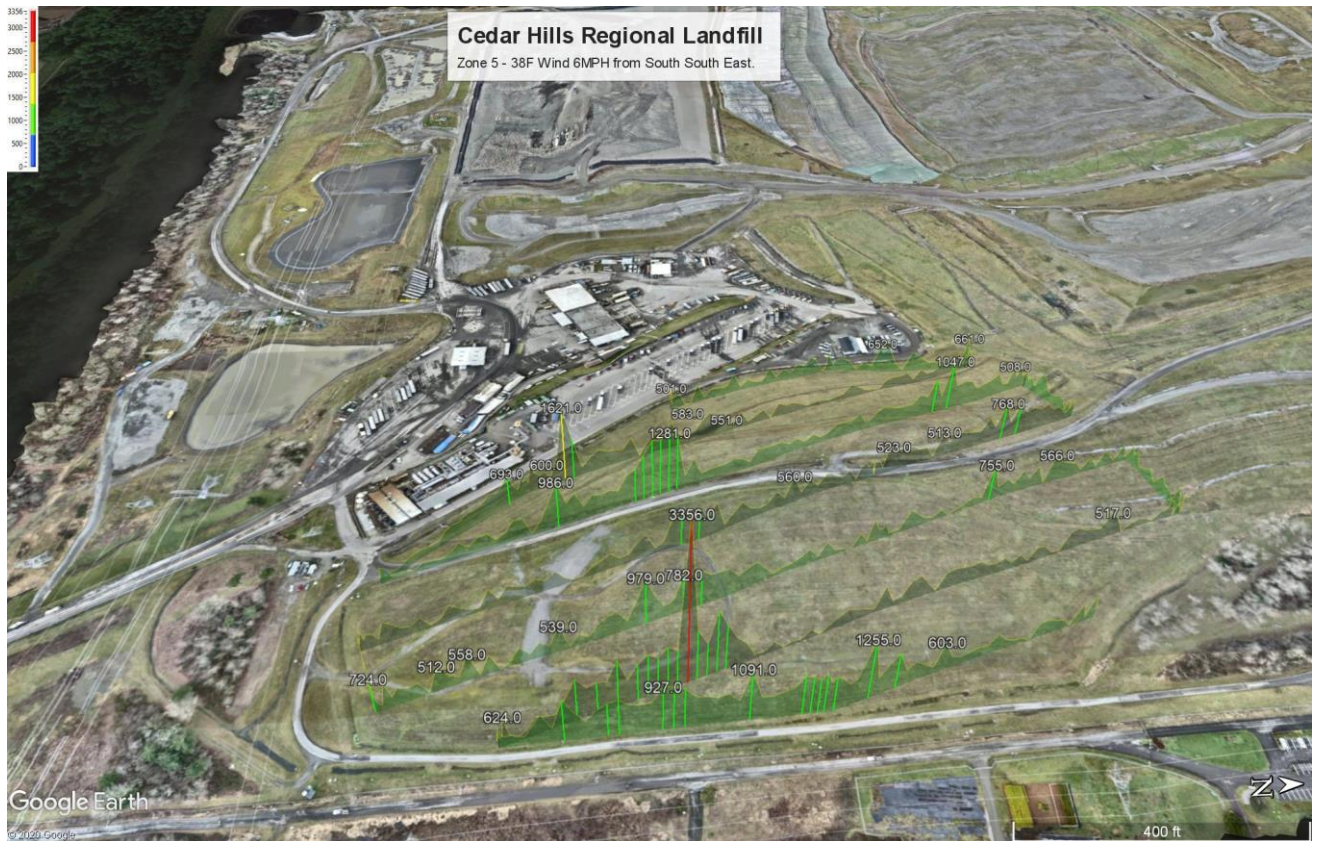
Detection	Date	Time	Latitude	Longitude	Concentration (ppm*m)
1	1/19/2021	11:03:01	47.4586933	-122.0445083	2497
2	1/19/2021	11:03:09	47.4590183	-122.0446733	536
3	1/19/2021	11:03:17	47.4593567	-122.044845	1603
4	1/19/2021	11:03:35	47.46012	-122.045235	738
5	1/19/2021	11:03:39	47.46029	-122.04532	557
6	1/19/2021	11:03:42	47.4604167	-122.0453867	723
7	1/19/2021	11:03:48	47.46067	-122.045515	903
8	1/19/2021	11:03:59	47.461135	-122.0457517	526
9	1/19/2021	11:04:16	47.4618533	-122.0461167	556
10	1/19/2021	11:04:20	47.4619533	-122.0461667	536
11	1/19/2021	11:04:21	47.4619683	-122.046175	663
12	1/19/2021	11:04:24	47.4619783	-122.0461967	535

13	1/19/2021	11:04:26	47.46197	-122.0462367	745
14	1/19/2021	11:04:32	47.46192	-122.04647	619
15	1/19/2021	11:04:34	47.4619067	-122.046525	708
16	1/19/2021	11:04:36	47.4619033	-122.0465467	777
17	1/19/2021	11:04:38	47.46191	-122.046545	605
18	1/19/2021	11:04:42	47.4619067	-122.046525	658
19	1/19/2021	11:04:43	47.4618983	-122.0465483	931
20	1/19/2021	11:04:44	47.4618917	-122.04656	521
21	1/19/2021	11:04:45	47.461885	-122.0465517	692
22	1/19/2021	11:04:46	47.4618733	-122.04655	625
23	1/19/2021	11:04:47	47.4618583	-122.0465417	759
24	1/19/2021	11:04:49	47.4618167	-122.04652	945
25	1/19/2021	11:04:50	47.46179	-122.046505	692
26	1/19/2021	11:04:51	47.4617583	-122.04649	583
27	1/19/2021	11:04:52	47.4617217	-122.0464717	693
28	1/19/2021	11:04:53	47.4616817	-122.04645	594
29	1/19/2021	11:04:54	47.4616383	-122.04643	1042
30	1/19/2021	11:04:55	47.4615967	-122.0464067	1014
31	1/19/2021	11:04:56	47.461555	-122.0463867	522
32	1/19/2021	11:04:58	47.46147	-122.0463417	530
33	1/19/2021	11:04:59	47.4614283	-122.0463217	545
34	1/19/2021	11:05:02	47.4613	-122.0462567	721
35	1/19/2021	11:05:07	47.4610883	-122.04615	639
36	1/19/2021	11:05:09	47.4610033	-122.046105	791
37	1/19/2021	11:05:10	47.4609617	-122.0460833	582
38	1/19/2021	11:05:13	47.4608333	-122.0460183	785
39	1/19/2021	11:05:14	47.4607933	-122.0459983	667

40	1/19/2021	11:05:15	47.4607483	-122.045975	520
41	1/19/2021	11:05:16	47.4607067	-122.0459533	574
42	1/19/2021	11:05:22	47.4604533	-122.045825	855
43	1/19/2021	11:05:40	47.45969	-122.0454367	2977
44	1/19/2021	11:05:42	47.4596067	-122.0453933	764
45	1/19/2021	11:05:45	47.45948	-122.0453283	587
46	1/19/2021	11:06:01	47.458805	-122.044985	721
47	1/19/2021	11:06:02	47.4587633	-122.0449617	1029
48	1/19/2021	11:06:11	47.4583867	-122.04477	900
49	1/19/2021	11:06:17	47.4582667	-122.0447117	1952
50	1/19/2021	11:06:18	47.4582617	-122.044715	507
51	1/19/2021	11:06:21	47.4582483	-122.0447633	732
52	1/19/2021	11:06:36	47.4581567	-122.0450683	533
53	1/19/2021	11:06:43	47.4582267	-122.0451083	586
54	1/19/2021	11:06:48	47.4583983	-122.0451967	1711
55	1/19/2021	11:06:57	47.45878	-122.0453917	630
56	1/19/2021	11:07:18	47.459665	-122.0458433	590
57	1/19/2021	11:07:26	47.460005	-122.0460167	1079
58	1/19/2021	11:07:29	47.46013	-122.04608	667
59	1/19/2021	11:07:31	47.460215	-122.0461233	796
60	1/19/2021	11:07:32	47.4602567	-122.046145	547
61	1/19/2021	11:07:41	47.4606367	-122.0463383	691
62	1/19/2021	11:07:42	47.46068	-122.0463617	510
63	1/19/2021	11:07:43	47.46072	-122.0463817	603
64	1/19/2021	11:07:52	47.4611033	-122.0465767	510
65	1/19/2021	11:07:53	47.461145	-122.0465983	579
66	1/19/2021	11:07:54	47.4611883	-122.04662	673

67	1/19/2021	11:08:05	47.46165	-122.046855	542
68	1/19/2021	11:08:06	47.46169	-122.0468767	510
69	1/19/2021	11:08:07	47.4617233	-122.0468917	518
70	1/19/2021	11:08:13	47.461805	-122.046935	506
71	1/19/2021	11:08:16	47.4617833	-122.0469367	784
72	1/19/2021	11:08:17	47.4617683	-122.0469383	524
73	1/19/2021	11:08:20	47.4616967	-122.0469417	525
74	1/19/2021	11:08:26	47.4614483	-122.0469517	592
75	1/19/2021	11:08:27	47.4614033	-122.0469533	781
76	1/19/2021	11:08:29	47.461315	-122.0469567	540
77	1/19/2021	11:08:36	47.4610817	-122.046965	1052
78	1/19/2021	11:08:37	47.4610633	-122.0469667	1052
79	1/19/2021	11:08:38	47.4610483	-122.0469667	649
80	1/19/2021	11:08:40	47.4610217	-122.0469533	2754
81	1/19/2021	11:08:47	47.46078	-122.0468333	654
82	1/19/2021	11:08:48	47.4607383	-122.04681	684
83	1/19/2021	11:08:49	47.4606967	-122.04679	646
84	1/19/2021	11:09:18	47.459475	-122.0461683	620
85	1/19/2021	11:09:31	47.4589283	-122.0458883	851
86	1/19/2021	11:09:33	47.4588433	-122.045845	640
87	1/19/2021	11:09:34	47.4588	-122.0458233	569
88	1/19/2021	11:09:46	47.4582967	-122.0455667	608
89	1/19/2021	11:09:49	47.4581717	-122.0455033	557
90	1/19/2021	11:10:37	47.4589583	-122.046325	602
91	1/19/2021	11:11:03	47.460045	-122.0468783	561
92	1/19/2021	11:11:09	47.4601517	-122.046935	616
93	1/19/2021	11:11:25	47.459695	-122.046915	1108

94	1/19/2021	11:11:26	47.45965	-122.0469133	1303
95	1/19/2021	11:11:36	47.459285	-122.0468983	813
96	1/19/2021	11:11:38	47.459255	-122.046895	559
97	1/19/2021	11:11:42	47.45917	-122.0468517	653
98	1/19/2021	11:11:46	47.4590183	-122.0467767	590



All detections 500 PPM*M and above are shown above and summarized below.

Summary of Detections

Detection	Date	Time	Latitude	Longitude	Concentration (ppm*m)
1	1/19/2021	10:29:14	47.4584217	-122.04002	603
2	1/19/2021	10:29:19	47.45821	-122.0399133	756
3	1/19/2021	10:29:20	47.4581683	-122.0398917	592
4	1/19/2021	10:29:22	47.4580883	-122.03985	1255
5	1/19/2021	10:29:24	47.458025	-122.0398183	520
6	1/19/2021	10:29:26	47.4579783	-122.039795	560
7	1/19/2021	10:29:27	47.4579617	-122.039785	667
8	1/19/2021	10:29:29	47.457935	-122.0397733	754
9	1/19/2021	10:29:30	47.457915	-122.0397717	646
10	1/19/2021	10:29:31	47.457895	-122.03977	826
11	1/19/2021	10:29:32	47.4578683	-122.0397667	735
12	1/19/2021	10:29:33	47.4578383	-122.039765	799

13	1/19/2021	10:29:34	47.4578033	-122.03976	854
14	1/19/2021	10:29:35	47.4577633	-122.0397567	611
15	1/19/2021	10:29:36	47.45772	-122.0397517	555
16	1/19/2021	10:29:39	47.457585	-122.0397367	1091
17	1/19/2021	10:29:41	47.457495	-122.0397267	636
18	1/19/2021	10:29:42	47.45745	-122.0397217	585
19	1/19/2021	10:29:43	47.4574067	-122.0397183	629
20	1/19/2021	10:29:44	47.4573617	-122.0397133	652
21	1/19/2021	10:29:45	47.4573167	-122.0397083	847
22	1/19/2021	10:29:46	47.4572717	-122.039705	919
23	1/19/2021	10:29:47	47.4572267	-122.0397	927
24	1/19/2021	10:29:48	47.4571817	-122.039695	635
25	1/19/2021	10:29:49	47.4571383	-122.03969	616
26	1/19/2021	10:29:50	47.4570933	-122.0396867	633
27	1/19/2021	10:29:51	47.4570483	-122.0396817	766
28	1/19/2021	10:29:52	47.4570033	-122.0396783	710
29	1/19/2021	10:29:53	47.4569583	-122.0396733	588
30	1/19/2021	10:29:55	47.45687	-122.0396633	603
31	1/19/2021	10:29:56	47.456825	-122.0396583	909
32	1/19/2021	10:29:58	47.4567367	-122.03965	624
33	1/19/2021	10:30:10	47.4565883	-122.039645	624
34	1/19/2021	10:30:18	47.456835	-122.0397733	569
35	1/19/2021	10:30:19	47.4568767	-122.039795	907
36	1/19/2021	10:30:20	47.45692	-122.0398167	646
37	1/19/2021	10:30:21	47.4569617	-122.0398367	687
38	1/19/2021	10:30:22	47.4570033	-122.0398583	626
39	1/19/2021	10:30:23	47.4570467	-122.0398817	1017

40	1/19/2021	10:30:24	47.4570883	-122.0399033	508
41	1/19/2021	10:30:25	47.45713	-122.0399233	773
42	1/19/2021	10:30:26	47.4571733	-122.039945	913
43	1/19/2021	10:30:27	47.457215	-122.0399683	768
44	1/19/2021	10:30:28	47.4572583	-122.03999	913
45	1/19/2021	10:30:29	47.4572983	-122.04001	789
46	1/19/2021	10:30:30	47.4573433	-122.0400333	3356
47	1/19/2021	10:30:31	47.4573833	-122.0400533	1058
48	1/19/2021	10:30:32	47.4574267	-122.040075	704
49	1/19/2021	10:30:33	47.45747	-122.0400983	1324
50	1/19/2021	10:30:34	47.45751	-122.0401183	967
51	1/19/2021	10:30:35	47.457555	-122.04014	614
52	1/19/2021	10:31:18	47.4593717	-122.0410667	517
53	1/19/2021	10:32:02	47.45919	-122.041535	566
54	1/19/2021	10:32:10	47.4588517	-122.0413617	755
55	1/19/2021	10:32:46	47.4575567	-122.0407017	594
56	1/19/2021	10:32:47	47.457515	-122.04068	601
57	1/19/2021	10:32:48	47.4574733	-122.04066	609
58	1/19/2021	10:32:49	47.45743	-122.0406383	735
59	1/19/2021	10:32:50	47.4573883	-122.0406167	738
60	1/19/2021	10:32:51	47.4573467	-122.040595	782
61	1/19/2021	10:32:54	47.45722	-122.04053	523
62	1/19/2021	10:32:55	47.4571783	-122.0405083	979
63	1/19/2021	10:32:56	47.457135	-122.0404883	548
64	1/19/2021	10:33:04	47.4567983	-122.040315	539
65	1/19/2021	10:33:13	47.45642	-122.0401233	558
66	1/19/2021	10:33:16	47.456295	-122.04006	512

67	1/19/2021	10:33:22	47.456085	-122.03995	542
68	1/19/2021	10:33:26	47.4560333	-122.0399317	724
69	1/19/2021	10:33:31	47.4560083	-122.0400417	609
70	1/19/2021	10:33:33	47.4559867	-122.0401283	566
71	1/19/2021	10:34:19	47.45732	-122.0411433	641
72	1/19/2021	10:34:20	47.4573617	-122.041165	755
73	1/19/2021	10:34:21	47.4574033	-122.0411867	556
74	1/19/2021	10:34:22	47.4574467	-122.0412083	706
75	1/19/2021	10:34:24	47.45753	-122.0412517	670
76	1/19/2021	10:34:33	47.45791	-122.0414433	560
77	1/19/2021	10:34:54	47.4584217	-122.0417067	523
78	1/19/2021	10:35:01	47.4586933	-122.0418433	513
79	1/19/2021	10:35:07	47.4589483	-122.0419733	552
80	1/19/2021	10:35:09	47.4590317	-122.0420167	768
81	1/19/2021	10:35:11	47.4591167	-122.04206	675
82	1/19/2021	10:35:13	47.4592017	-122.0421033	501
83	1/19/2021	10:35:46	47.4592167	-122.0426683	508
84	1/19/2021	10:35:53	47.4589633	-122.0425417	508
85	1/19/2021	10:35:54	47.45892	-122.04252	537
86	1/19/2021	10:35:56	47.458835	-122.0424767	1047
87	1/19/2021	10:35:58	47.4587517	-122.0424333	747
88	1/19/2021	10:36:29	47.4574467	-122.0417683	588
89	1/19/2021	10:36:31	47.4573633	-122.041725	1169
90	1/19/2021	10:36:32	47.4573217	-122.0417033	1281
91	1/19/2021	10:36:33	47.4572783	-122.0416817	1199
92	1/19/2021	10:36:34	47.4572383	-122.0416617	1236
93	1/19/2021	10:36:35	47.457195	-122.04164	983

94	1/19/2021	10:36:36	47.4571533	-122.0416183	716
95	1/19/2021	10:36:37	47.4571117	-122.0415967	652
96	1/19/2021	10:36:43	47.4568583	-122.0414683	637
97	1/19/2021	10:36:45	47.4567767	-122.0414267	986
98	1/19/2021	10:36:46	47.456735	-122.041405	624
99	1/19/2021	10:37:30	47.4564933	-122.0417417	512
100	1/19/2021	10:37:31	47.45652	-122.0417767	693
101	1/19/2021	10:37:38	47.45663	-122.0419133	600
102	1/19/2021	10:37:43	47.4567617	-122.0419817	517
103	1/19/2021	10:37:44	47.4568	-122.042	1621
104	1/19/2021	10:37:45	47.4568433	-122.0420217	871
105	1/19/2021	10:37:57	47.4573533	-122.0422817	583
106	1/19/2021	10:38:02	47.4575633	-122.04239	551
107	1/19/2021	10:38:46	47.4590667	-122.0431767	661
108	1/19/2021	10:38:58	47.4586367	-122.0432617	575
109	1/19/2021	10:38:59	47.4585933	-122.0432683	652
110	1/19/2021	10:39:40	47.4573733	-122.0428517	501



All detections 500 PPM*M and above are shown above and summarized below.

Summary of Detections

Detection	Date	Time	Latitude	Longitude	Concentration (ppm*m)
1	1/19/2021	14:04:49	47.460395	-122.0499383	646
2	1/19/2021	14:05:32	47.4604133	-122.0525333	504
3	1/19/2021	14:05:38	47.4604167	-122.052835	828
4	1/19/2021	14:05:39	47.4604167	-122.052905	852
5	1/19/2021	14:05:41	47.4604167	-122.0530367	638
6	1/19/2021	14:05:42	47.4604183	-122.0531033	3361
7	1/19/2021	14:05:44	47.4604183	-122.0532367	644
8	1/19/2021	14:06:01	47.4604317	-122.0539017	522
9	1/19/2021	14:06:04	47.460425	-122.0539117	3116
10	1/19/2021	14:06:30	47.4606917	-122.0535467	2623
11	1/19/2021	14:06:41	47.4606867	-122.0528217	831

12	1/19/2021	14:06:42	47.4606867	-122.0527633	735
13	1/19/2021	14:06:43	47.460685	-122.0527067	953
14	1/19/2021	14:06:44	47.460685	-122.05266	827
15	1/19/2021	14:06:52	47.4606833	-122.052415	551
16	1/19/2021	14:07:15	47.460675	-122.0513017	614
17	1/19/2021	14:07:32	47.4606667	-122.0501733	689
18	1/19/2021	14:07:45	47.46066	-122.0493167	518
19	1/19/2021	14:07:53	47.4606567	-122.0487917	552
20	1/19/2021	14:08:04	47.4606517	-122.0480667	500
21	1/19/2021	14:08:19	47.4606433	-122.0475067	591
22	1/19/2021	14:09:20	47.460915	-122.0475267	533
23	1/19/2021	14:09:28	47.4609183	-122.0478867	508
24	1/19/2021	14:10:04	47.4609367	-122.0502667	513
25	1/19/2021	14:10:34	47.4609467	-122.0519067	620
26	1/19/2021	14:10:46	47.4609533	-122.0525083	536
27	1/19/2021	14:10:56	47.4609583	-122.0530117	580
28	1/19/2021	14:10:57	47.4609583	-122.05308	866
29	1/19/2021	14:10:58	47.46096	-122.053145	609
30	1/19/2021	14:10:59	47.46096	-122.0532133	603
31	1/19/2021	14:11:13	47.460965	-122.05393	684
32	1/19/2021	14:11:39	47.4612317	-122.0538967	983
33	1/19/2021	14:11:47	47.46123	-122.05346	912
34	1/19/2021	14:11:48	47.46123	-122.053395	555
35	1/19/2021	14:11:50	47.4612283	-122.0532617	1441
36	1/19/2021	14:11:53	47.4612283	-122.053065	536
37	1/19/2021	14:12:45	47.4612067	-122.0503683	553
38	1/19/2021	14:12:55	47.4612033	-122.0497167	508

39	1/19/2021	14:13:08	47.4611967	-122.0488583	511
40	1/19/2021	14:13:27	47.46119	-122.04797	554
41	1/19/2021	14:13:36	47.461185	-122.0473783	1009
42	1/19/2021	14:14:08	47.46145	-122.047035	683
43	1/19/2021	14:14:09	47.4614517	-122.04705	675
44	1/19/2021	14:14:10	47.46145	-122.0470783	738
45	1/19/2021	14:14:26	47.46146	-122.0480167	3818
46	1/19/2021	14:14:27	47.46146	-122.0480783	694
47	1/19/2021	14:15:59	47.4614983	-122.053095	507
48	1/19/2021	14:16:06	47.4615017	-122.0535583	553
49	1/19/2021	14:16:14	47.461505	-122.0539317	856
50	1/19/2021	14:16:36	47.4617717	-122.0539883	760
51	1/19/2021	14:16:46	47.46177	-122.0536667	654
52	1/19/2021	14:16:51	47.4617683	-122.0533333	940
53	1/19/2021	14:17:03	47.461765	-122.0526117	719
54	1/19/2021	14:17:07	47.4617633	-122.0525167	805
55	1/19/2021	14:26:44	47.4617583	-122.052475	527
56	1/19/2021	14:28:20	47.4617233	-122.0471567	1074
57	1/19/2021	14:28:21	47.4617233	-122.0471433	811
58	1/19/2021	14:29:43	47.46202	-122.050805	624
59	1/19/2021	14:29:44	47.46202	-122.05087	593
60	1/19/2021	14:29:47	47.4620217	-122.0510683	597
61	1/19/2021	14:29:56	47.4620267	-122.0516617	646
62	1/19/2021	14:30:16	47.4620317	-122.05249	567
63	1/19/2021	14:30:19	47.4620317	-122.0525833	555
64	1/19/2021	14:30:26	47.4620367	-122.0530033	513
65	1/19/2021	14:30:35	47.4620417	-122.0535983	506

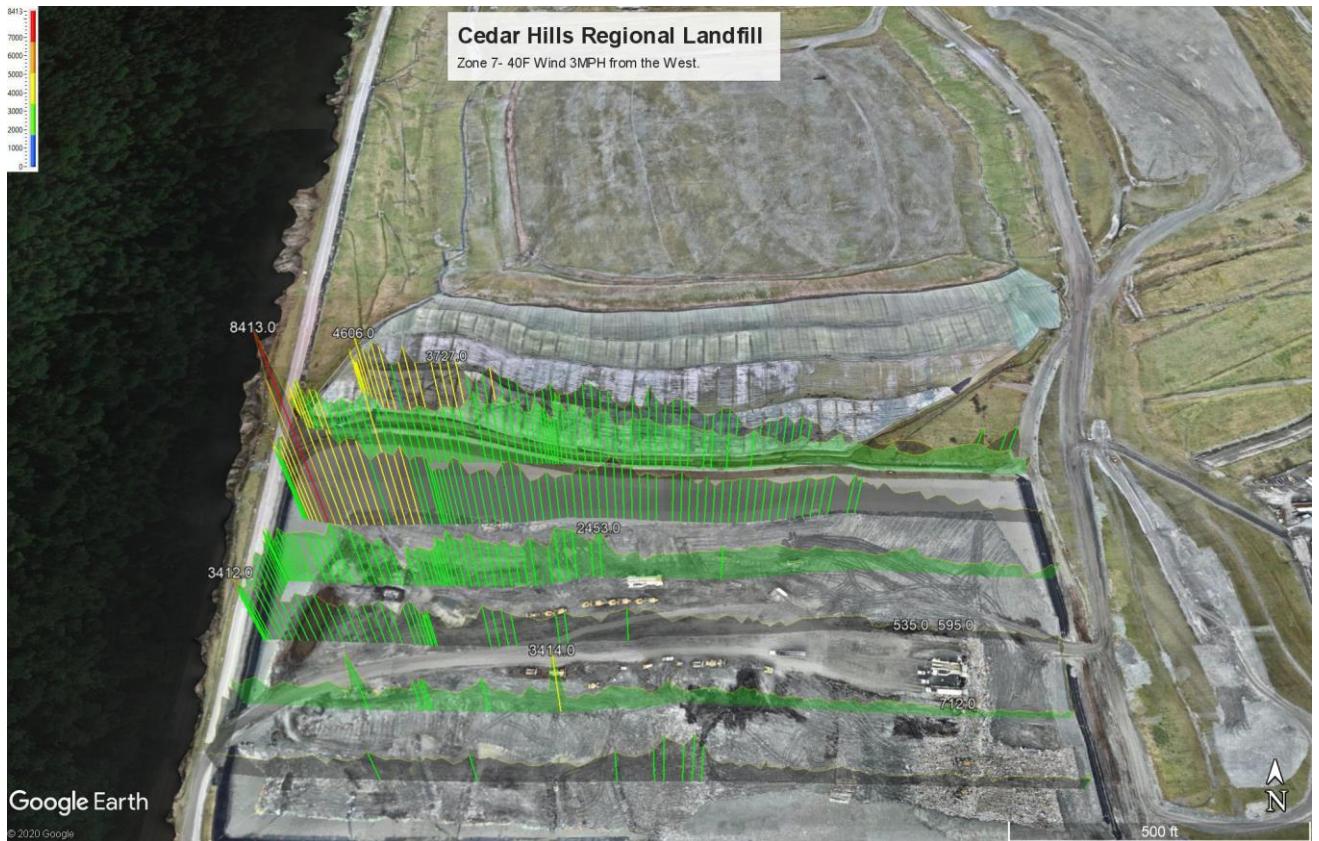
66	1/19/2021	14:30:39	47.4620433	-122.0538383	1149
67	1/19/2021	14:30:44	47.462045	-122.0539933	731
68	1/19/2021	14:30:46	47.4620483	-122.0539817	553
69	1/19/2021	14:30:53	47.4620433	-122.0540133	580
70	1/19/2021	14:31:39	47.4623017	-122.0524183	542
71	1/19/2021	14:32:13	47.4622867	-122.050235	532
72	1/19/2021	14:32:18	47.4622833	-122.049905	672
73	1/19/2021	14:32:19	47.4622833	-122.0498383	753
74	1/19/2021	14:32:20	47.4622833	-122.049765	669
75	1/19/2021	14:32:21	47.4622833	-122.0497067	681
76	1/19/2021	14:32:24	47.46228	-122.0495017	530
77	1/19/2021	14:32:25	47.46228	-122.0494417	509
78	1/19/2021	14:32:39	47.462275	-122.0488633	523
79	1/19/2021	14:32:40	47.462275	-122.04879	581
80	1/19/2021	14:32:41	47.462275	-122.0487317	613
81	1/19/2021	14:32:50	47.46227	-122.0481333	874
82	1/19/2021	14:32:53	47.4622683	-122.047935	507
83	1/19/2021	14:33:47	47.4625483	-122.0492267	709
84	1/19/2021	14:33:48	47.4625483	-122.0492933	540
85	1/19/2021	14:33:49	47.4625483	-122.04936	927
86	1/19/2021	14:34:04	47.4625567	-122.0503383	680
87	1/19/2021	14:34:17	47.4625617	-122.05119	536
88	1/19/2021	14:34:49	47.4625767	-122.052975	592
89	1/19/2021	14:45:04	47.4580217	-122.0495367	584
90	1/19/2021	14:45:07	47.45802	-122.04934	629
91	1/19/2021	14:45:08	47.45802	-122.0492717	526
92	1/19/2021	14:45:14	47.4580167	-122.0488733	614

93	1/19/2021	14:45:34	47.4580083	-122.0476483	569
94	1/19/2021	14:46:13	47.4582833	-122.0485717	517
95	1/19/2021	14:46:31	47.4582933	-122.0497667	620
96	1/19/2021	14:46:56	47.458305	-122.0514267	791
97	1/19/2021	14:47:00	47.4583067	-122.0516917	527
98	1/19/2021	14:47:02	47.4583083	-122.051825	585
99	1/19/2021	14:47:08	47.45831	-122.0522217	867
100	1/19/2021	14:47:09	47.45831	-122.0522883	630
101	1/19/2021	14:47:10	47.45831	-122.052355	887
102	1/19/2021	14:47:12	47.4583133	-122.0524867	675
103	1/19/2021	14:47:14	47.4583133	-122.0526183	662
104	1/19/2021	14:47:15	47.458315	-122.052685	526
105	1/19/2021	14:47:19	47.458315	-122.0529517	559
106	1/19/2021	14:47:22	47.4583167	-122.0531517	645
107	1/19/2021	14:47:23	47.4583183	-122.05322	807
108	1/19/2021	14:47:33	47.4583233	-122.0537567	747
109	1/19/2021	14:47:36	47.45833	-122.05381	834
110	1/19/2021	14:47:37	47.4583433	-122.0538183	525
111	1/19/2021	14:47:43	47.45849	-122.0539333	834
112	1/19/2021	14:47:45	47.45854	-122.05397	674
113	1/19/2021	14:47:46	47.45856	-122.0539867	570
114	1/19/2021	14:47:47	47.458575	-122.0539967	702
115	1/19/2021	14:47:48	47.4585883	-122.0540083	783
116	1/19/2021	14:47:50	47.4585933	-122.0540117	796
117	1/19/2021	14:47:51	47.4585933	-122.0540067	1024
118	1/19/2021	14:47:52	47.45859	-122.0539967	1108
119	1/19/2021	14:47:53	47.45859	-122.0539783	931

120	1/19/2021	14:47:54	47.4585917	-122.0539517	1000
121	1/19/2021	14:47:55	47.4585917	-122.0539217	814
122	1/19/2021	14:48:00	47.45859	-122.053665	511
123	1/19/2021	14:49:00	47.4585617	-122.0496883	743
124	1/19/2021	14:49:26	47.4585483	-122.0479667	562
125	1/19/2021	14:49:27	47.4585483	-122.0479	608
126	1/19/2021	14:49:36	47.458545	-122.0473967	1515
127	1/19/2021	14:49:37	47.458545	-122.0473717	1164
128	1/19/2021	14:49:40	47.4585483	-122.0473333	621
129	1/19/2021	14:50:35	47.4588283	-122.0493733	527
130	1/19/2021	14:50:42	47.4588333	-122.04983	601
131	1/19/2021	14:51:06	47.4588433	-122.0514017	563
132	1/19/2021	14:51:09	47.458845	-122.0515967	527
133	1/19/2021	14:51:11	47.4588467	-122.0517267	545
134	1/19/2021	14:51:27	47.458855	-122.052775	941
135	1/19/2021	14:51:35	47.4588583	-122.0532983	506
136	1/19/2021	14:51:40	47.4588617	-122.053625	504
137	1/19/2021	15:00:15	47.4591233	-122.05264	505
138	1/19/2021	15:00:58	47.4591017	-122.049795	641
139	1/19/2021	15:01:21	47.4590917	-122.0482667	784
140	1/19/2021	15:01:44	47.4590817	-122.0469217	517
141	1/19/2021	15:01:45	47.4590833	-122.0469133	704
142	1/19/2021	15:01:46	47.459085	-122.0469	523
143	1/19/2021	15:01:47	47.4590917	-122.0468983	545
144	1/19/2021	15:01:48	47.4591033	-122.0468967	527
145	1/19/2021	15:02:01	47.4593483	-122.0468583	707
146	1/19/2021	15:02:05	47.4593483	-122.0469567	571

147	1/19/2021	15:02:11	47.4593533	-122.0472933	659
148	1/19/2021	15:02:25	47.45936	-122.04822	542
149	1/19/2021	15:02:27	47.45936	-122.0483533	556
150	1/19/2021	15:02:31	47.4593633	-122.0486183	511
151	1/19/2021	15:02:34	47.459365	-122.0488183	660
152	1/19/2021	15:02:37	47.4593667	-122.049015	549
153	1/19/2021	15:03:00	47.4593767	-122.05053	556
154	1/19/2021	15:03:44	47.4593967	-122.0530883	702
155	1/19/2021	15:03:45	47.4593967	-122.053155	1059
156	1/19/2021	15:03:46	47.4593983	-122.05322	735
157	1/19/2021	15:04:41	47.459665	-122.0529133	648
158	1/19/2021	15:04:42	47.459665	-122.05285	1268
159	1/19/2021	15:04:43	47.459665	-122.0527833	1330
160	1/19/2021	15:05:47	47.459635	-122.0489033	845
161	1/19/2021	15:06:02	47.4596283	-122.04791	680
162	1/19/2021	15:06:06	47.459625	-122.0476417	764
163	1/19/2021	15:06:12	47.4596233	-122.047245	552
164	1/19/2021	15:06:52	47.4598917	-122.0471483	511
165	1/19/2021	15:06:55	47.4598933	-122.0473467	618
166	1/19/2021	15:07:06	47.4598983	-122.048075	549
167	1/19/2021	15:07:22	47.4599067	-122.049135	673
168	1/19/2021	15:07:23	47.4599083	-122.0492017	611
169	1/19/2021	15:08:16	47.4599317	-122.052325	500
170	1/19/2021	15:08:17	47.4599317	-122.0523683	583
171	1/19/2021	15:08:18	47.4599317	-122.052405	503
172	1/19/2021	15:08:21	47.4599317	-122.0524817	505
173	1/19/2021	15:08:22	47.4599317	-122.05251	606

174	1/19/2021	15:08:24	47.4599317	-122.052575	526
175	1/19/2021	15:08:30	47.459935	-122.0529183	1081
176	1/19/2021	15:08:31	47.4599367	-122.052985	655
177	1/19/2021	15:08:32	47.4599367	-122.0530533	522
178	1/19/2021	15:08:39	47.45994	-122.0535167	536
179	1/19/2021	15:09:35	47.4602033	-122.0527733	718
180	1/19/2021	15:09:44	47.4602	-122.0524417	603
181	1/19/2021	15:09:52	47.4601967	-122.052005	523
182	1/19/2021	15:11:21	47.4601617	-122.0471333	768
183	1/19/2021	15:11:28	47.46016	-122.0467667	537
184	1/19/2021	15:11:58	47.4604317	-122.0472	604
185	1/19/2021	15:13:37	47.4604717	-122.05265	551
186	1/19/2021	15:13:39	47.4604717	-122.05276	857
187	1/19/2021	15:13:42	47.460475	-122.05296	759
188	1/19/2021	15:13:43	47.4604767	-122.053025	523



All detections 500 PPM*M and above are shown above and summarized below.

Summary of Detections 10m Average

Detection	Date	Time	Latitude	Longitude	Concentration (ppm*m)
1	1/20/2021	10:09:23	47.4581883	-122.053175	2905
2	1/20/2021	10:09:24	47.4581883	-122.0531767	2318
3	1/20/2021	10:09:25	47.4581883	-122.0531767	2322
4	1/20/2021	10:09:26	47.4581883	-122.0531767	3403
5	1/20/2021	10:09:27	47.4581883	-122.0531767	2791
6	1/20/2021	10:09:28	47.4581867	-122.0531767	2792
7	1/20/2021	10:09:29	47.4581883	-122.0531767	3066
8	1/20/2021	10:09:30	47.4581883	-122.0531783	2018
9	1/20/2021	10:09:31	47.4581883	-122.0531783	2672
10	1/20/2021	10:09:32	47.4581867	-122.05318	1965
11	1/20/2021	10:09:33	47.4581867	-122.05318	2728

12	1/20/2021	10:09:35	47.4581867	-122.0531783	2642
13	1/20/2021	10:09:36	47.4581883	-122.0531783	2138
14	1/20/2021	10:09:37	47.4581883	-122.0531783	2358
15	1/20/2021	10:09:38	47.4581883	-122.0531783	2279
16	1/20/2021	10:09:39	47.45819	-122.0531783	2054
17	1/20/2021	10:09:40	47.45819	-122.0531783	2154
18	1/20/2021	10:09:41	47.45819	-122.0531783	2883
19	1/20/2021	10:09:42	47.45819	-122.0531783	2466
20	1/20/2021	10:09:43	47.45819	-122.05318	2331
21	1/20/2021	10:09:44	47.45819	-122.05318	2476
22	1/20/2021	10:09:45	47.45819	-122.05318	2223
23	1/20/2021	10:09:46	47.45819	-122.05318	2289
24	1/20/2021	10:09:47	47.4581883	-122.05318	3036
25	1/20/2021	10:09:48	47.4581883	-122.05318	3302
26	1/20/2021	10:09:49	47.4581883	-122.0531817	2724
27	1/20/2021	10:09:50	47.4581867	-122.0531817	3572
28	1/20/2021	10:09:51	47.4581867	-122.0531817	3325
29	1/20/2021	10:09:52	47.458185	-122.0531833	3528
30	1/20/2021	10:09:53	47.458185	-122.0531833	3607
31	1/20/2021	10:09:54	47.458185	-122.053185	3927
32	1/20/2021	10:09:55	47.458185	-122.0531867	3326
33	1/20/2021	10:09:56	47.458185	-122.0531867	3855
34	1/20/2021	10:09:57	47.458185	-122.0531883	3647
35	1/20/2021	10:09:58	47.458185	-122.05319	4012
36	1/20/2021	10:09:59	47.4581867	-122.05318	3857

37	1/20/2021	10:10:00	47.4581867	-122.05317	3436
38	1/20/2021	10:10:01	47.458185	-122.05316	3434
39	1/20/2021	10:10:02	47.458185	-122.05314	3582
40	1/20/2021	10:10:03	47.4581833	-122.0531167	4606
41	1/20/2021	10:10:04	47.4581833	-122.0530833	4013
42	1/20/2021	10:10:05	47.4581817	-122.053045	3737
43	1/20/2021	10:10:06	47.45818	-122.053	4257
44	1/20/2021	10:10:07	47.4581767	-122.0529483	4238
45	1/20/2021	10:10:08	47.458175	-122.0528883	3355
46	1/20/2021	10:10:09	47.4581733	-122.0528233	3482
47	1/20/2021	10:10:10	47.45817	-122.0527583	4178
48	1/20/2021	10:10:11	47.4581667	-122.0526933	3468
49	1/20/2021	10:10:13	47.4581617	-122.05256	3510
50	1/20/2021	10:10:14	47.4581583	-122.0524933	3431
51	1/20/2021	10:10:15	47.458155	-122.0524267	3727
52	1/20/2021	10:10:16	47.4581517	-122.0523617	3566
53	1/20/2021	10:10:17	47.4581483	-122.052295	3030
54	1/20/2021	10:10:18	47.458145	-122.05223	2702
55	1/20/2021	10:10:19	47.4581433	-122.0521633	3138
56	1/20/2021	10:10:20	47.45814	-122.0520983	3490
57	1/20/2021	10:10:21	47.4581367	-122.0520317	3125
58	1/20/2021	10:10:22	47.4581333	-122.051965	3085
59	1/20/2021	10:10:23	47.4581317	-122.0519	2895
60	1/20/2021	10:10:24	47.4581283	-122.0518333	2525
61	1/20/2021	10:10:25	47.458125	-122.0517683	2506

62	1/20/2021	10:10:26	47.4581217	-122.0517	2711
63	1/20/2021	10:10:27	47.45812	-122.0516333	2974
64	1/20/2021	10:10:28	47.4581167	-122.0515683	2499
65	1/20/2021	10:10:29	47.4581133	-122.0515017	2566
66	1/20/2021	10:10:30	47.45811	-122.0514367	2703
67	1/20/2021	10:10:31	47.4581067	-122.0513717	3048
68	1/20/2021	10:10:32	47.458105	-122.051305	3065
69	1/20/2021	10:10:33	47.4581017	-122.05124	2828
70	1/20/2021	10:10:34	47.4581	-122.0511733	2863
71	1/20/2021	10:10:35	47.4580967	-122.05111	2316
72	1/20/2021	10:10:36	47.4580933	-122.051045	2167
73	1/20/2021	10:10:37	47.45809	-122.0509783	2706
74	1/20/2021	10:10:38	47.4580867	-122.050915	2096
75	1/20/2021	10:10:39	47.458085	-122.0508483	3144
76	1/20/2021	10:10:40	47.4580817	-122.0507833	2691
77	1/20/2021	10:10:41	47.4580783	-122.0507167	2381
78	1/20/2021	10:10:42	47.458075	-122.05065	2677
79	1/20/2021	10:10:43	47.4580717	-122.050585	2767
80	1/20/2021	10:10:44	47.4580683	-122.0505183	2555
81	1/20/2021	10:10:46	47.4580633	-122.0503883	2082
82	1/20/2021	10:10:47	47.45806	-122.0503217	2124
83	1/20/2021	10:10:48	47.4580567	-122.0502567	2449
84	1/20/2021	10:10:49	47.458055	-122.0501917	2463
85	1/20/2021	10:10:50	47.4580517	-122.050125	2127
86	1/20/2021	10:10:51	47.4580483	-122.0500617	1627

87	1/20/2021	10:10:52	47.458045	-122.049995	1540
88	1/20/2021	10:10:53	47.4580433	-122.04993	1741
89	1/20/2021	10:10:54	47.45804	-122.0498633	1875
90	1/20/2021	10:10:55	47.4580367	-122.0497983	1865
91	1/20/2021	10:10:56	47.4580333	-122.0497333	2109
92	1/20/2021	10:10:57	47.45803	-122.0496667	1685
93	1/20/2021	10:10:58	47.4580283	-122.0496033	1964
94	1/20/2021	10:10:59	47.458025	-122.049535	1742
95	1/20/2021	10:11:00	47.4580217	-122.04947	1621
96	1/20/2021	10:11:01	47.45802	-122.0494067	1077
97	1/20/2021	10:11:02	47.4580167	-122.04934	1423
98	1/20/2021	10:11:03	47.4580133	-122.049275	1244
99	1/20/2021	10:11:04	47.45801	-122.0492083	1223
100	1/20/2021	10:11:05	47.4580067	-122.0491433	905
101	1/20/2021	10:11:06	47.458005	-122.0490783	1086
102	1/20/2021	10:11:07	47.4580017	-122.0490117	1317
103	1/20/2021	10:11:08	47.458	-122.0489483	1018
104	1/20/2021	10:11:09	47.4579967	-122.0488817	1044
105	1/20/2021	10:11:10	47.4579933	-122.048815	1264
106	1/20/2021	10:11:11	47.45799	-122.0487517	1260
107	1/20/2021	10:11:12	47.4579883	-122.048685	1289
108	1/20/2021	10:11:13	47.457985	-122.04862	1219
109	1/20/2021	10:11:14	47.4579817	-122.0485533	1112
110	1/20/2021	10:11:15	47.4579783	-122.0484883	915
111	1/20/2021	10:11:16	47.457975	-122.048425	963

112	1/20/2021	10:11:17	47.4579733	-122.0483583	1072
113	1/20/2021	10:11:19	47.4579667	-122.0482283	1070
114	1/20/2021	10:11:20	47.4579633	-122.0481617	2125
115	1/20/2021	10:11:21	47.45796	-122.0480983	1193
116	1/20/2021	10:11:22	47.4579583	-122.04803	1575
117	1/20/2021	10:11:23	47.457955	-122.047965	1883
118	1/20/2021	10:11:24	47.4579517	-122.0479	2251
119	1/20/2021	10:11:25	47.4579483	-122.047835	1616
120	1/20/2021	10:11:26	47.4579467	-122.0477917	730
121	1/20/2021	10:11:27	47.4579467	-122.0477567	732
122	1/20/2021	10:11:28	47.457945	-122.04773	807
123	1/20/2021	10:11:29	47.4579433	-122.0477117	934
124	1/20/2021	10:11:30	47.4579417	-122.0476933	662
125	1/20/2021	10:11:32	47.4579417	-122.0476983	608
126	1/20/2021	10:11:35	47.4579433	-122.0477417	781
127	1/20/2021	10:11:36	47.4579433	-122.04777	734
128	1/20/2021	10:11:37	47.457945	-122.0478033	815
129	1/20/2021	10:11:38	47.4579433	-122.0478417	781
130	1/20/2021	10:11:39	47.457945	-122.04789	1209
131	1/20/2021	10:11:40	47.457945	-122.0479433	1116
132	1/20/2021	10:11:41	47.4579467	-122.0480033	1091
133	1/20/2021	10:11:42	47.4579483	-122.04807	1165
134	1/20/2021	10:11:43	47.4579483	-122.0481367	1381
135	1/20/2021	10:11:44	47.45795	-122.0482033	1409
136	1/20/2021	10:11:45	47.45795	-122.04827	1377

137	1/20/2021	10:11:47	47.4579517	-122.0484017	1205
138	1/20/2021	10:11:48	47.4579533	-122.0484667	1121
139	1/20/2021	10:11:49	47.4579533	-122.0485333	1066
140	1/20/2021	10:11:50	47.457955	-122.0485983	830
141	1/20/2021	10:11:51	47.4579567	-122.0486667	795
142	1/20/2021	10:11:52	47.4579567	-122.04873	904
143	1/20/2021	10:11:53	47.4579583	-122.0487967	960
144	1/20/2021	10:11:54	47.4579583	-122.0488617	1358
145	1/20/2021	10:11:55	47.45796	-122.0489217	974
146	1/20/2021	10:11:56	47.4579617	-122.048975	997
147	1/20/2021	10:11:57	47.4579617	-122.0490217	1014
148	1/20/2021	10:11:58	47.4579633	-122.04906	1126
149	1/20/2021	10:11:59	47.4579633	-122.049095	1066
150	1/20/2021	10:12:00	47.4579633	-122.04912	1173
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152	1/20/2021	10:12:02	47.4579633	-122.0491533	1147
153	1/20/2021	10:12:03	47.4579633	-122.049185	1177
154	1/20/2021	10:12:04	47.4579633	-122.0492133	1028
155	1/20/2021	10:12:05	47.457965	-122.04925	1100
156	1/20/2021	10:12:06	47.457965	-122.0492933	1515
157	1/20/2021	10:12:07	47.4579667	-122.0493417	1343
158	1/20/2021	10:12:08	47.4579683	-122.0494	1068
159	1/20/2021	10:12:09	47.4579683	-122.0494633	1117
160	1/20/2021	10:12:10	47.45797	-122.04953	1090
161	1/20/2021	10:12:11	47.4579717	-122.0495967	1444

162	1/20/2021	10:12:12	47.4579717	-122.0496633	1210
163	1/20/2021	10:12:13	47.4579733	-122.04973	1051
164	1/20/2021	10:12:14	47.4579733	-122.0497967	1354
165	1/20/2021	10:12:15	47.457975	-122.0498633	1545
166	1/20/2021	10:12:16	47.4579767	-122.0499283	1588
167	1/20/2021	10:12:17	47.4579767	-122.049995	1908
168	1/20/2021	10:12:18	47.4579783	-122.0500617	1645
169	1/20/2021	10:12:19	47.4579783	-122.0501283	1626
170	1/20/2021	10:12:20	47.45798	-122.050195	1771
171	1/20/2021	10:12:21	47.4579817	-122.05026	1578
172	1/20/2021	10:12:22	47.4579817	-122.0503267	1909
173	1/20/2021	10:12:23	47.4579833	-122.0503917	1870
174	1/20/2021	10:12:25	47.457985	-122.0505233	2120
175	1/20/2021	10:12:26	47.4579867	-122.0505883	2080
176	1/20/2021	10:12:27	47.4579867	-122.050655	2068
177	1/20/2021	10:12:28	47.4579883	-122.0507217	2055
178	1/20/2021	10:12:29	47.45799	-122.05079	2134
179	1/20/2021	10:12:30	47.45799	-122.050855	2382
180	1/20/2021	10:12:31	47.4579917	-122.05092	2299
181	1/20/2021	10:12:32	47.4579917	-122.0509867	2355
182	1/20/2021	10:12:33	47.4579933	-122.0510517	1945
183	1/20/2021	10:12:34	47.4579933	-122.0511183	1984
184	1/20/2021	10:12:35	47.457995	-122.0511833	2584
185	1/20/2021	10:12:36	47.4579967	-122.05125	2451
186	1/20/2021	10:12:37	47.4579967	-122.0513167	2171

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188	1/20/2021	10:12:39	47.458	-122.051445	2828
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190	1/20/2021	10:12:41	47.4580017	-122.0515367	2858
191	1/20/2021	10:12:42	47.4580017	-122.0515767	3342
192	1/20/2021	10:12:43	47.4580033	-122.0516083	2282
193	1/20/2021	10:12:44	47.4580017	-122.0516317	2041
194	1/20/2021	10:12:45	47.4580017	-122.051655	2439
195	1/20/2021	10:12:46	47.4580017	-122.0516833	2599
196	1/20/2021	10:12:47	47.4580033	-122.05171	2753
197	1/20/2021	10:12:48	47.4580017	-122.051745	3059
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199	1/20/2021	10:12:50	47.4580033	-122.051835	2472
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201	1/20/2021	10:12:52	47.458005	-122.0519517	2828
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203	1/20/2021	10:12:54	47.4580083	-122.052085	2785
204	1/20/2021	10:12:55	47.45801	-122.05215	2792
205	1/20/2021	10:12:56	47.4580117	-122.0522183	3305
206	1/20/2021	10:12:58	47.4580133	-122.0523533	2527
207	1/20/2021	10:12:59	47.458015	-122.05242	2642
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215	1/20/2021	10:13:07	47.4580217	-122.0529467	2564
216	1/20/2021	10:13:08	47.4580233	-122.0530117	2933
217	1/20/2021	10:13:09	47.4580233	-122.05308	3426
218	1/20/2021	10:13:10	47.458025	-122.0531433	3045
219	1/20/2021	10:13:11	47.4580267	-122.05321	2832
220	1/20/2021	10:13:12	47.4580267	-122.0532767	3089
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222	1/20/2021	10:13:14	47.4580283	-122.053405	2959
223	1/20/2021	10:13:15	47.45803	-122.0534617	3453
224	1/20/2021	10:13:16	47.4580317	-122.0535083	3508
225	1/20/2021	10:13:17	47.4580317	-122.05355	3052
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227	1/20/2021	10:13:19	47.4580333	-122.05361	3785
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229	1/20/2021	10:13:21	47.4580333	-122.0536517	3370
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235	1/20/2021	10:13:27	47.4579383	-122.0536617	3312
236	1/20/2021	10:13:28	47.4579083	-122.053665	3842

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238	1/20/2021	10:13:30	47.4578333	-122.053675	3364
239	1/20/2021	10:13:31	47.4577983	-122.05368	2951
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253	1/20/2021	10:13:45	47.4576733	-122.0536117	3897
254	1/20/2021	10:13:46	47.4576733	-122.0535783	4130
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271	1/20/2021	10:14:04	47.4576567	-122.0525617	3311
272	1/20/2021	10:14:05	47.4576567	-122.0525367	3198
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289	1/20/2021	10:14:22	47.4576433	-122.0516367	2342
290	1/20/2021	10:14:23	47.4576417	-122.0515717	2009
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304	1/20/2021	10:14:38	47.4576267	-122.0505867	2451
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306	1/20/2021	10:14:40	47.4576233	-122.0504583	1902
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310	1/20/2021	10:14:44	47.45762	-122.0501983	2098
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318	1/20/2021	10:14:52	47.4576117	-122.049675	1837
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320	1/20/2021	10:14:54	47.45761	-122.0495467	1817
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329	1/20/2021	10:15:03	47.457605	-122.0491717	1545
330	1/20/2021	10:15:04	47.4576033	-122.049145	1526
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343	1/20/2021	10:15:18	47.4575933	-122.0483967	724
344	1/20/2021	10:15:19	47.4575917	-122.04833	825
345	1/20/2021	10:15:20	47.45759	-122.0482633	1070
346	1/20/2021	10:15:21	47.45759	-122.0481967	712
347	1/20/2021	10:15:22	47.4575883	-122.0481317	587
348	1/20/2021	10:15:23	47.4575867	-122.048065	706
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352	1/20/2021	10:15:27	47.457585	-122.0478417	670
353	1/20/2021	10:15:28	47.4575833	-122.0478017	592
354	1/20/2021	10:15:29	47.4575833	-122.04777	604
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356	1/20/2021	10:15:31	47.4575817	-122.047725	703
357	1/20/2021	10:15:33	47.457575	-122.0477083	620
358	1/20/2021	10:15:35	47.4575533	-122.0477117	548
359	1/20/2021	10:15:36	47.4575367	-122.0477117	598
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361	1/20/2021	10:15:38	47.4574883	-122.04771	581

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364	1/20/2021	10:15:41	47.4573817	-122.0477117	698
365	1/20/2021	10:15:42	47.4573467	-122.0477117	653
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380	1/20/2021	10:16:01	47.4572317	-122.0482617	809
381	1/20/2021	10:16:02	47.4572317	-122.0483283	600
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384	1/20/2021	10:16:05	47.457235	-122.0485267	592
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394	1/20/2021	10:16:15	47.457245	-122.0491883	785
395	1/20/2021	10:16:16	47.457245	-122.049255	963
396	1/20/2021	10:16:17	47.4572467	-122.04932	1010
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404	1/20/2021	10:16:27	47.4572567	-122.0498983	1647
405	1/20/2021	10:16:28	47.4572567	-122.0499283	1490
406	1/20/2021	10:16:29	47.4572567	-122.04995	1577
407	1/20/2021	10:16:30	47.4572567	-122.0499733	1576
408	1/20/2021	10:16:31	47.4572567	-122.0500017	1405
409	1/20/2021	10:16:32	47.4572567	-122.05003	1638
410	1/20/2021	10:16:33	47.4572583	-122.0500667	1650
411	1/20/2021	10:16:34	47.4572583	-122.05011	1442

412	1/20/2021	10:16:35	47.45726	-122.05016	1534
413	1/20/2021	10:16:36	47.45726	-122.0502167	1458
414	1/20/2021	10:16:37	47.4572617	-122.05028	1691
415	1/20/2021	10:16:38	47.4572617	-122.0503467	1426
416	1/20/2021	10:16:39	47.4572633	-122.0504133	1464
417	1/20/2021	10:16:40	47.457265	-122.05048	1431
418	1/20/2021	10:16:41	47.457265	-122.0505483	1307
419	1/20/2021	10:16:42	47.4572667	-122.050615	1318
420	1/20/2021	10:16:43	47.4572683	-122.05068	1259
421	1/20/2021	10:16:44	47.45727	-122.0507467	1247
422	1/20/2021	10:16:45	47.45727	-122.0508133	1185
423	1/20/2021	10:16:46	47.45727	-122.0508783	933
424	1/20/2021	10:16:47	47.4572717	-122.0509467	1392
425	1/20/2021	10:16:48	47.4572733	-122.0510117	1177
426	1/20/2021	10:16:49	47.4572733	-122.0510783	1173
427	1/20/2021	10:16:50	47.457275	-122.051145	1649
428	1/20/2021	10:16:51	47.4572767	-122.0512117	2453
429	1/20/2021	10:16:52	47.4572767	-122.0512767	1779
430	1/20/2021	10:16:54	47.4572783	-122.05141	2471
431	1/20/2021	10:16:55	47.45728	-122.051475	2612
432	1/20/2021	10:16:56	47.4572817	-122.0515417	2723
433	1/20/2021	10:16:57	47.4572817	-122.0516067	1850
434	1/20/2021	10:16:59	47.4572833	-122.0517383	2505
435	1/20/2021	10:17:00	47.457285	-122.051805	2067
436	1/20/2021	10:17:01	47.457285	-122.05187	2096

437	1/20/2021	10:17:02	47.4572867	-122.051935	2410
438	1/20/2021	10:17:03	47.4572883	-122.0520017	2207
439	1/20/2021	10:17:04	47.4572883	-122.0520667	2376
440	1/20/2021	10:17:05	47.45729	-122.0521317	2380
441	1/20/2021	10:17:06	47.45729	-122.0521967	2815
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443	1/20/2021	10:17:08	47.4572933	-122.0523133	2557
444	1/20/2021	10:17:09	47.457295	-122.0523567	2903
445	1/20/2021	10:17:10	47.457295	-122.052395	2310
446	1/20/2021	10:17:11	47.457295	-122.052425	2450
447	1/20/2021	10:17:12	47.457295	-122.0524517	2599
448	1/20/2021	10:17:13	47.457295	-122.05247	2078
449	1/20/2021	10:17:14	47.457295	-122.052495	1964
450	1/20/2021	10:17:15	47.457295	-122.05252	1872
451	1/20/2021	10:17:16	47.457295	-122.0525533	1974
452	1/20/2021	10:17:17	47.4572967	-122.0525933	2036
453	1/20/2021	10:17:18	47.4572967	-122.05264	1879
454	1/20/2021	10:17:19	47.4572983	-122.052695	2051
455	1/20/2021	10:17:20	47.4572983	-122.052755	820
456	1/20/2021	10:17:21	47.4573	-122.05282	1981
457	1/20/2021	10:17:22	47.4573017	-122.0528883	2436
458	1/20/2021	10:17:23	47.4573033	-122.052955	2132
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460	1/20/2021	10:17:25	47.457305	-122.0530867	2841
461	1/20/2021	10:17:27	47.4573067	-122.0532183	3125

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465	1/20/2021	10:17:32	47.4573133	-122.0535333	2534
466	1/20/2021	10:17:33	47.4573133	-122.0535817	2510
467	1/20/2021	10:17:34	47.4573133	-122.0536217	2785
468	1/20/2021	10:17:35	47.457315	-122.0536567	2351
469	1/20/2021	10:17:36	47.457315	-122.0536833	2136
470	1/20/2021	10:17:37	47.457315	-122.053705	2783
471	1/20/2021	10:17:38	47.4573133	-122.0537267	2307
472	1/20/2021	10:17:39	47.4573083	-122.0537283	2585
473	1/20/2021	10:17:40	47.4573	-122.0537283	2775
474	1/20/2021	10:17:41	47.457285	-122.0537333	2194
475	1/20/2021	10:17:42	47.4572667	-122.053735	2495
476	1/20/2021	10:17:43	47.457245	-122.05374	2088
477	1/20/2021	10:17:44	47.4572183	-122.0537467	2164
478	1/20/2021	10:17:45	47.4571867	-122.0537517	2601
479	1/20/2021	10:17:46	47.4571517	-122.0537583	2617
480	1/20/2021	10:17:47	47.4571133	-122.0537667	2377
481	1/20/2021	10:17:48	47.4570783	-122.0537733	2102
482	1/20/2021	10:17:49	47.4570483	-122.05378	2550
483	1/20/2021	10:17:50	47.45702	-122.0537867	2321
484	1/20/2021	10:17:51	47.4569983	-122.05379	2398
485	1/20/2021	10:17:52	47.4569817	-122.0537933	2590
486	1/20/2021	10:17:53	47.4569667	-122.053795	3412

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488	1/20/2021	10:17:55	47.4569583	-122.05379	3021
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496	1/20/2021	10:18:04	47.4569517	-122.0534567	2127
497	1/20/2021	10:18:05	47.45695	-122.05339	2569
498	1/20/2021	10:18:06	47.45695	-122.0533233	2424
499	1/20/2021	10:18:07	47.4569483	-122.0532583	2554
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505	1/20/2021	10:18:13	47.4569417	-122.0528617	2064
506	1/20/2021	10:18:14	47.4569417	-122.0527967	2303
507	1/20/2021	10:18:15	47.45694	-122.0527367	1904
508	1/20/2021	10:18:16	47.45694	-122.0526833	1606
509	1/20/2021	10:18:17	47.4569383	-122.052635	2064
510	1/20/2021	10:18:18	47.4569383	-122.0525933	2312
511	1/20/2021	10:18:19	47.4569383	-122.05256	2294

512	1/20/2021	10:18:20	47.4569367	-122.0525333	1852
513	1/20/2021	10:18:21	47.4569367	-122.0525117	1710
514	1/20/2021	10:18:22	47.4569383	-122.052505	1687
515	1/20/2021	10:18:23	47.4569383	-122.0525083	1544
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517	1/20/2021	10:18:25	47.456935	-122.0524817	1896
518	1/20/2021	10:18:26	47.456935	-122.0524683	1893
519	1/20/2021	10:18:28	47.456935	-122.0524217	1626
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525	1/20/2021	10:18:34	47.45693	-122.05212	1518
526	1/20/2021	10:18:35	47.45693	-122.0520533	2229
527	1/20/2021	10:18:36	47.4569283	-122.0519867	1982
528	1/20/2021	10:18:37	47.4569283	-122.0519183	1949
529	1/20/2021	10:18:38	47.4569267	-122.0518533	1718
530	1/20/2021	10:18:39	47.456925	-122.0517867	1606
531	1/20/2021	10:18:40	47.456925	-122.05172	1582
532	1/20/2021	10:18:41	47.4569233	-122.051655	1404
533	1/20/2021	10:18:42	47.4569217	-122.0515883	1516
534	1/20/2021	10:18:43	47.4569217	-122.0515217	1713
535	1/20/2021	10:18:44	47.45692	-122.0514567	1749
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539	1/20/2021	10:18:48	47.4569167	-122.0511933	1037
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542	1/20/2021	10:18:51	47.4569133	-122.0509967	1770
543	1/20/2021	10:18:52	47.4569117	-122.05093	1357
544	1/20/2021	10:18:53	47.4569117	-122.050865	1495
545	1/20/2021	10:18:54	47.45691	-122.0507983	1370
546	1/20/2021	10:18:55	47.4569083	-122.0507333	1069
547	1/20/2021	10:18:56	47.4569083	-122.0506667	794
548	1/20/2021	10:18:57	47.4569067	-122.0506017	944
549	1/20/2021	10:18:58	47.456905	-122.0505367	1119
550	1/20/2021	10:18:59	47.456905	-122.0504717	970
551	1/20/2021	10:19:01	47.4569033	-122.05034	861
552	1/20/2021	10:19:02	47.4569017	-122.050275	1089
553	1/20/2021	10:19:03	47.4569017	-122.05021	992
554	1/20/2021	10:19:04	47.4569	-122.050155	622
555	1/20/2021	10:19:05	47.4569017	-122.05011	996
556	1/20/2021	10:19:06	47.4569	-122.0500733	687
557	1/20/2021	10:19:07	47.4568983	-122.0500417	828
558	1/20/2021	10:19:08	47.4568983	-122.0500167	633
559	1/20/2021	10:19:09	47.4568983	-122.0499967	547
560	1/20/2021	10:19:10	47.4568967	-122.0499717	564
561	1/20/2021	10:19:12	47.456895	-122.049915	536

562	1/20/2021	10:19:13	47.456895	-122.049875	676
563	1/20/2021	10:19:15	47.4568933	-122.0497767	525
564	1/20/2021	10:19:16	47.4568933	-122.0497167	732
565	1/20/2021	10:19:17	47.4568917	-122.04965	698
566	1/20/2021	10:19:18	47.4568917	-122.0495833	699
567	1/20/2021	10:19:19	47.45689	-122.0495167	732
568	1/20/2021	10:19:20	47.45689	-122.0494483	737
569	1/20/2021	10:19:21	47.4568883	-122.0493833	789
570	1/20/2021	10:19:22	47.4568883	-122.0493167	825
571	1/20/2021	10:19:23	47.456885	-122.0492517	796
572	1/20/2021	10:19:30	47.4568783	-122.0487867	535
573	1/20/2021	10:19:33	47.4568767	-122.04859	595
574	1/20/2021	10:19:34	47.456875	-122.0485233	502
575	1/20/2021	10:20:23	47.4565167	-122.0486283	712
576	1/20/2021	10:20:24	47.4565167	-122.04869	656
577	1/20/2021	10:20:26	47.4565183	-122.0488283	575
578	1/20/2021	10:20:27	47.45652	-122.0488917	537
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580	1/20/2021	10:20:29	47.4565217	-122.0490233	596
581	1/20/2021	10:20:30	47.4565233	-122.04909	767
582	1/20/2021	10:20:31	47.456525	-122.0491583	702
583	1/20/2021	10:20:32	47.456525	-122.0492217	643
584	1/20/2021	10:20:34	47.4565283	-122.0493533	655
585	1/20/2021	10:20:35	47.4565283	-122.0494217	586
586	1/20/2021	10:20:36	47.45653	-122.0494867	604

587	1/20/2021	10:20:38	47.4565317	-122.0496183	717
588	1/20/2021	10:20:39	47.4565333	-122.0496817	570
589	1/20/2021	10:20:41	47.456535	-122.0498017	707
590	1/20/2021	10:20:42	47.4565367	-122.0498467	572
591	1/20/2021	10:20:43	47.4565367	-122.0498883	548
592	1/20/2021	10:20:44	47.4565367	-122.04992	627
593	1/20/2021	10:20:45	47.4565367	-122.0499467	803
594	1/20/2021	10:20:46	47.4565367	-122.0499683	716
595	1/20/2021	10:20:47	47.4565367	-122.04999	711
596	1/20/2021	10:20:48	47.4565367	-122.0500167	823
597	1/20/2021	10:20:49	47.4565383	-122.050045	596
598	1/20/2021	10:20:50	47.4565383	-122.050085	976
599	1/20/2021	10:20:51	47.4565383	-122.05013	854
600	1/20/2021	10:20:52	47.45654	-122.05018	1068
601	1/20/2021	10:20:53	47.45654	-122.05024	637
602	1/20/2021	10:20:55	47.4565433	-122.0503717	901
603	1/20/2021	10:20:56	47.456545	-122.0504383	832
604	1/20/2021	10:20:57	47.456545	-122.0505033	735
605	1/20/2021	10:20:58	47.4565467	-122.0505717	643
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607	1/20/2021	10:21:00	47.4565483	-122.0507033	1379
608	1/20/2021	10:21:01	47.45655	-122.0507717	871
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610	1/20/2021	10:21:03	47.4565517	-122.0509033	1254
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614	1/20/2021	10:21:07	47.4565567	-122.0511617	1103
615	1/20/2021	10:21:08	47.4565567	-122.0512317	885
616	1/20/2021	10:21:09	47.4565583	-122.051295	1110
617	1/20/2021	10:21:10	47.45656	-122.05136	777
618	1/20/2021	10:21:11	47.45656	-122.0514267	856
619	1/20/2021	10:21:12	47.4565617	-122.0514867	3414
620	1/20/2021	10:21:13	47.4565617	-122.0515567	1187
621	1/20/2021	10:21:14	47.4565633	-122.0516217	1211
622	1/20/2021	10:21:15	47.4565633	-122.0516867	1620
623	1/20/2021	10:21:16	47.4565633	-122.05175	973
624	1/20/2021	10:21:17	47.456565	-122.0518133	1110
625	1/20/2021	10:21:18	47.4565667	-122.0518817	1334
626	1/20/2021	10:21:19	47.4565683	-122.0519483	1275
627	1/20/2021	10:21:20	47.4565683	-122.0520133	1982
628	1/20/2021	10:21:21	47.45657	-122.05208	1518
629	1/20/2021	10:21:22	47.45657	-122.0521417	1343
630	1/20/2021	10:21:23	47.4565717	-122.05221	1073
631	1/20/2021	10:21:24	47.4565733	-122.052275	1168
632	1/20/2021	10:21:25	47.4565733	-122.0523317	1288
633	1/20/2021	10:21:26	47.456575	-122.052375	1251
634	1/20/2021	10:21:28	47.4565767	-122.0524417	1826
635	1/20/2021	10:21:29	47.4565767	-122.052465	1770
636	1/20/2021	10:21:30	47.4565767	-122.052485	1490

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641	1/20/2021	10:21:35	47.4565767	-122.0526633	1340
642	1/20/2021	10:21:36	47.4565783	-122.0527217	1329
643	1/20/2021	10:21:37	47.45658	-122.0527833	954
644	1/20/2021	10:21:38	47.4565817	-122.0528483	1229
645	1/20/2021	10:21:39	47.4565833	-122.0529133	3180
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648	1/20/2021	10:21:42	47.4565867	-122.0531117	1646
649	1/20/2021	10:21:43	47.4565867	-122.0531783	1514
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651	1/20/2021	10:21:45	47.4565883	-122.05331	1211
652	1/20/2021	10:21:46	47.45659	-122.0533783	1212
653	1/20/2021	10:21:47	47.4565917	-122.0534433	1379
654	1/20/2021	10:21:48	47.4565917	-122.05351	1126
655	1/20/2021	10:21:49	47.4565933	-122.0535733	967
656	1/20/2021	10:21:50	47.456595	-122.0536283	1598
657	1/20/2021	10:21:51	47.456595	-122.0536783	1466
658	1/20/2021	10:21:52	47.456595	-122.0537217	1400
659	1/20/2021	10:21:53	47.4565967	-122.0537567	1100
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668	1/20/2021	10:22:03	47.45648	-122.053845	1370
669	1/20/2021	10:22:04	47.456445	-122.05385	1215
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671	1/20/2021	10:22:07	47.4563383	-122.0538633	953
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674	1/20/2021	10:22:10	47.4562683	-122.0538717	1547
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679	1/20/2021	10:22:15	47.4562383	-122.0538383	1302
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803	1/20/2021	10:24:25	47.4561483	-122.0478467	513
804	1/20/2021	10:24:26	47.4561483	-122.0478483	807
805	1/20/2021	10:24:27	47.4561467	-122.0478483	542
806	1/20/2021	10:24:28	47.4561467	-122.0478467	811
807	1/20/2021	10:24:29	47.456145	-122.0478467	705
808	1/20/2021	10:24:30	47.456145	-122.047845	689
809	1/20/2021	10:24:31	47.456145	-122.047845	893
810	1/20/2021	10:24:32	47.4561433	-122.0478433	775
811	1/20/2021	10:24:33	47.4561433	-122.0478417	670

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