EXHIBIT 2

GEO

April 21, 2021

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Geotechnical engineering

Construction materials testing

Re: Instrumentation Monitoring for Municipal Solid Waste Landfill
Arecibo, Puerto Rico
(S853-14-LF-ARE)

Dear engineer Zayas:

DBE
PR/FL DTOP Certified Disadvantaged Business Enterprise

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SBA Certified

AASHTO AAP Accredited Laboratory

US Army Corps of Engineers
Validated Laboratory

NMSDC
MBE Certified

As part of the monitoring program being conducted at Arecibo's municipal solid waste landfill, on April 9, 2021, we performed a site visit for taking readings of inclinometers installed along the landfill northern portion (Fig. 1) and observe the area's ground conditions.

Below is a summary of the instrumentation readings that have been taken to date:

Instrumentation Readings Summary

ID No.	Type	First Monitoring Reading	Number of Readings
I-2	Inclinometer	1/10/2018	2
I-3	Inclinometer	4/15/2011	13
I-4	Inclinometer	9/3/2014	9

Below are our comments on the readings and site visit. The summary of the inclinometer readings and plots are attached (Figs. 2, 3, and 4).

- Inclinometer I-2 was installed in August 2017 to substitute previous inclinometer I-2 which was broken (see written communication of August 21, 2017). The monitoring reading performed on April 9, 2021 indicated that ground movements have developed in this area since January 10, 2018. The ground movements are mainly occurring at a depth of 3 to 5 ft. A review of the boring log (boring B-5) for this inclinometer indicates that the ground movements are occurring within solid waste overlying the in-situ ground. The maximum deflection was approximately 1.45 inches and was measured at a depth of 3 ft. The ground surrounding this inclinometer was soft and the measured maximum deflection seemed to be associated with the ground consistency rather than to a lateral movement of the ground associated with a slope instability. No cracks were observed at the ground surface surrounding this inclinometer. Additional readings will be required to confirm this condition.

- The reading from inclinometer I-3 is consistent with the previous readings and continues to indicate that the inclinometer casing has maintained minor deformations in the downslope direction between the depths of approximately 7 ft and 15 ft. Based upon the boring log for this inclinometer (boring B-3), the casing has deformed within solid waste found between an upper layer of existing fill and the underlying in-situ soil. As a result, the detected deformation is probably due to buckling of the inclinometer casing caused by vertical and/or lateral deformations developing within the solid waste. The maximum deflection reached by the inclinometer casing in almost ten years of monitoring is less than 0.25 inches. No cracks were observed at the ground surface surrounding the inclinometer that would indicate that large lateral movements were occurring within the ground.

- The reading from inclinometer I-4 continues to indicate a downslope deformation at a depth between 11 ft and 17 ft, near the contact between existing fill and underlying solid waste. The detected deformation is probably due to buckling of the inclinometer casing caused by vertical and/or lateral deformations developed within the fill and/or solid waste. The maximum deflection reached by the inclinometer casing in close to seven years of monitoring is of approximately 0.49 inches. No cracks were observed at the ground surface that would indicate that large lateral movements were occurring within the ground.

A visual inspection of the landfill solid waste northern area was conducted during the site visit. No physical signs (e.g. cracks, scarps, bulging, etc.) were observed that would indicate problems of instability along the landfill northern slope. Taking into consideration that inclinometers I-2 and I-4 are aligned in a downslope direction, the readings from these inclinometers do not seem to indicate that there is a deep-seated problem of instability that would involve the landfill solid waste (south of these inclinometers). The detected ground movements from these inclinometers seem to be localized and associated with deformations occurring within the solid waste where the inclinometers were installed.

However, we recommend performing the next monitoring reading in six months. The results from this reading will help determining if additional instrumentation will be required to be installed at the southern part of the access road to better define if the detected ground movements would also be associated with the landfill solid waste.

The next inclinometer readings will be performed in **October 2021**. If you have any questions regarding these findings, please do not hesitate to contact us.

Cordially,
GEO-Engineering

Carlos E. Rodríguez Pérez, PhD, PE
Geotechnical Engineer

https://geoengineering1413.sharepoint.com/sites/GEO-Engineering/Shared Documents/ProjectsCurrent/S853-14-LF-ARE-VertederoArecibo/Letters on Monitoring/2021/853-AreciboMSW-Monitoring-Reading-4-9-2021.docx

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FIGURE 1

Schematic Location of Inclinometers at Project Site

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

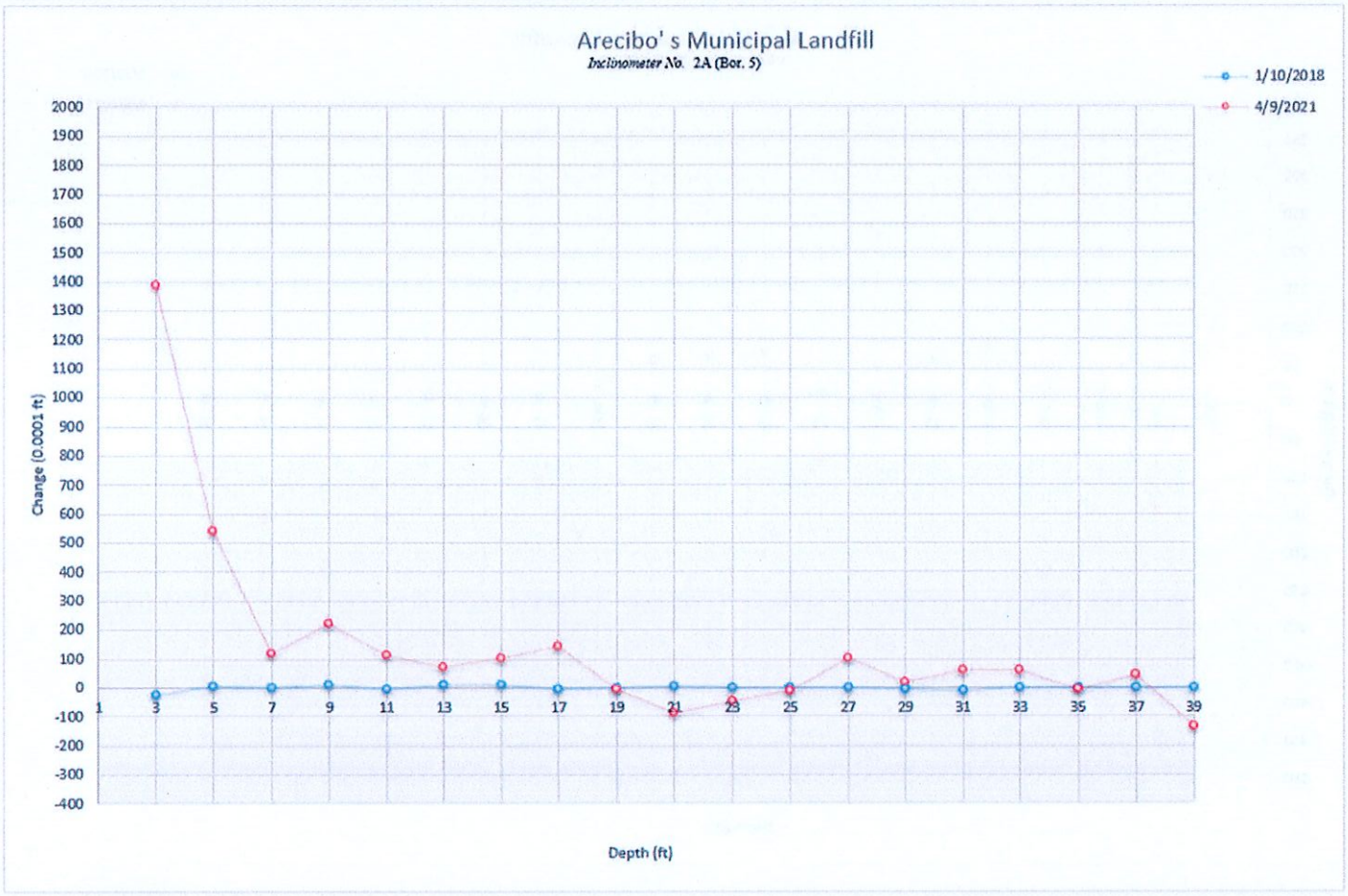

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FIGURE 2

Inclinometer 2 – Axis A
Change Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

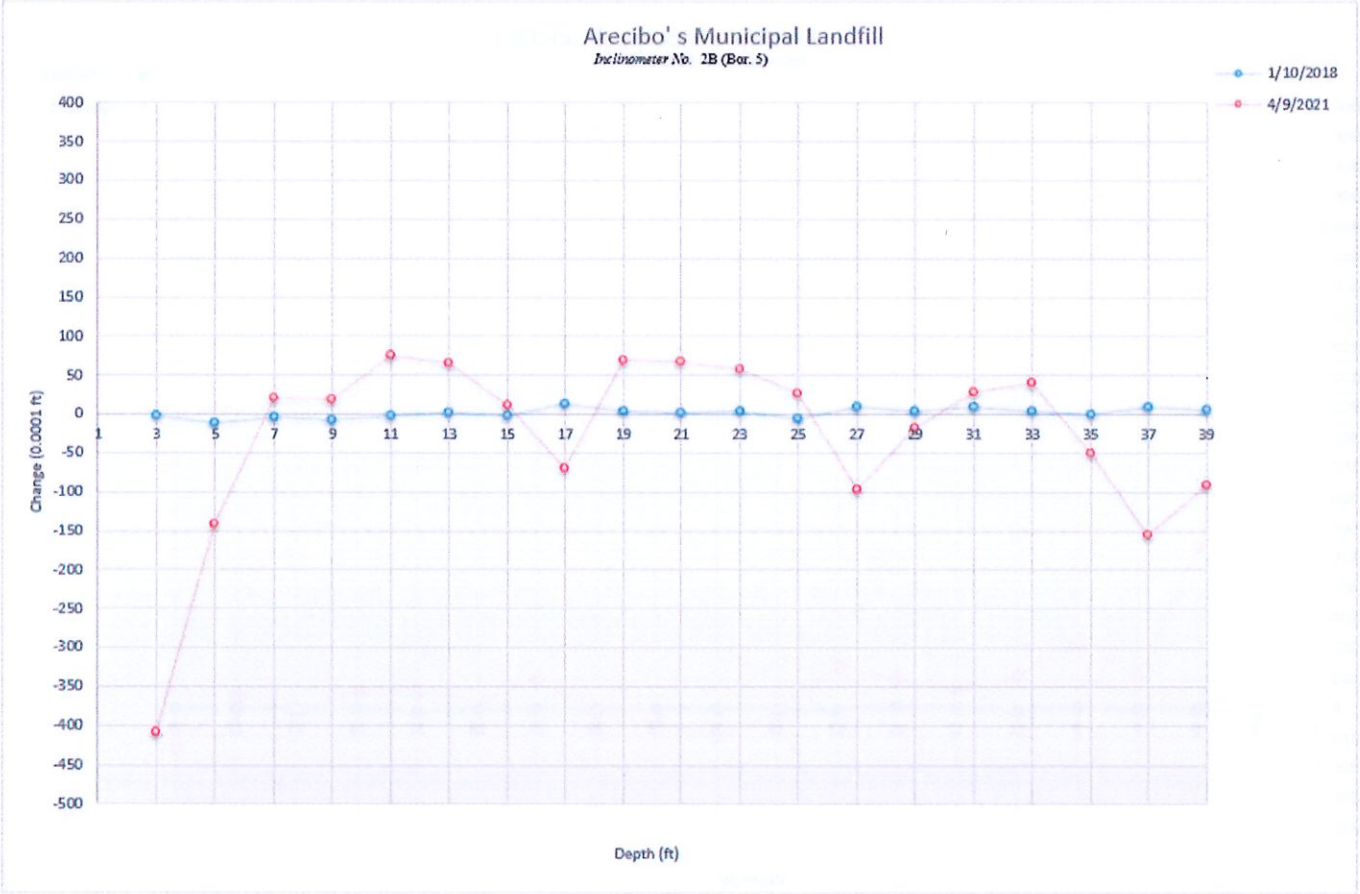

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FIGURE 2 Cont.

Inclinometer 2 – Axis B
Change Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

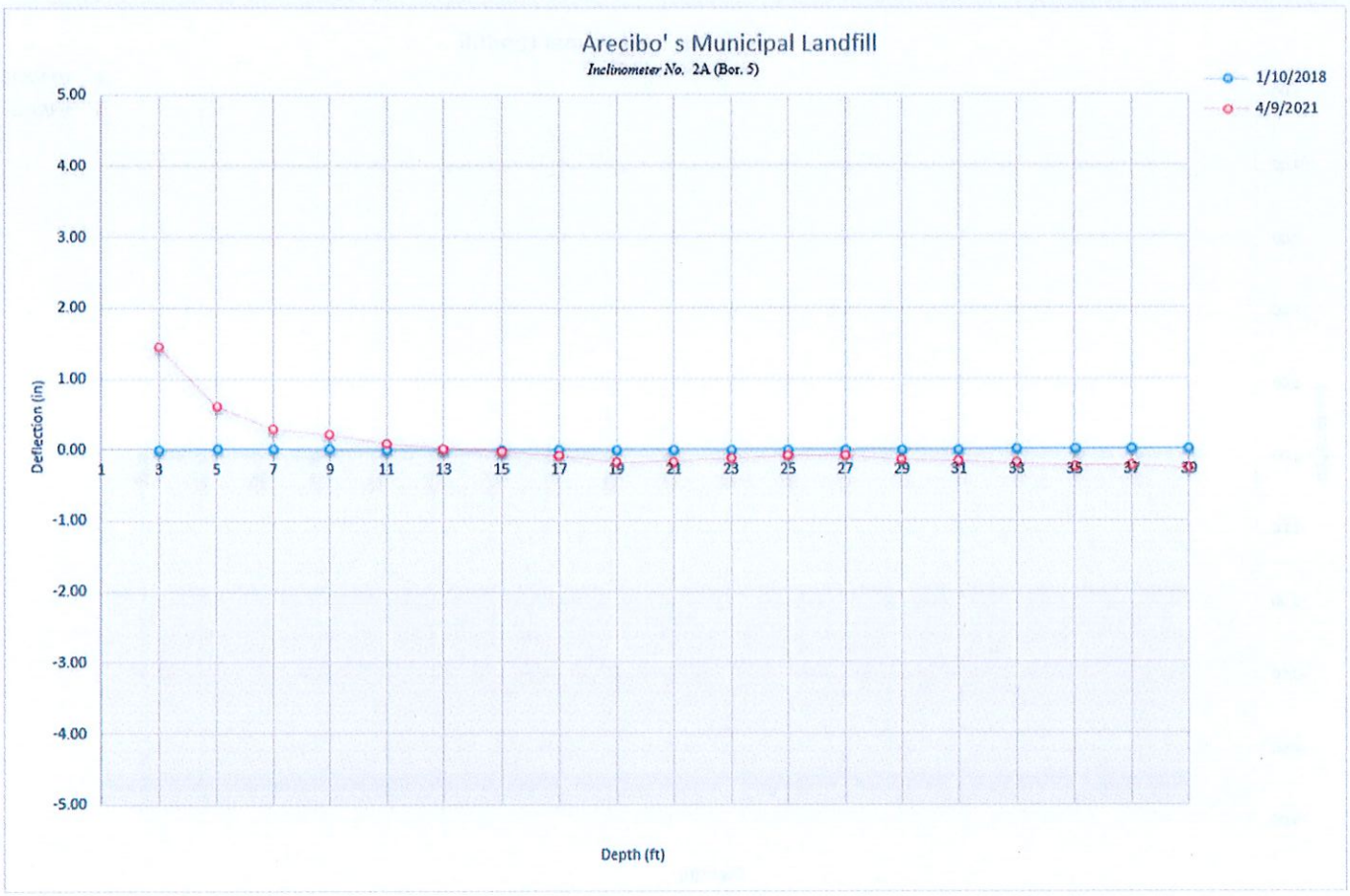

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FIGURE 2 Cont.

Inclinometer 2 – Axis A
Deflection Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

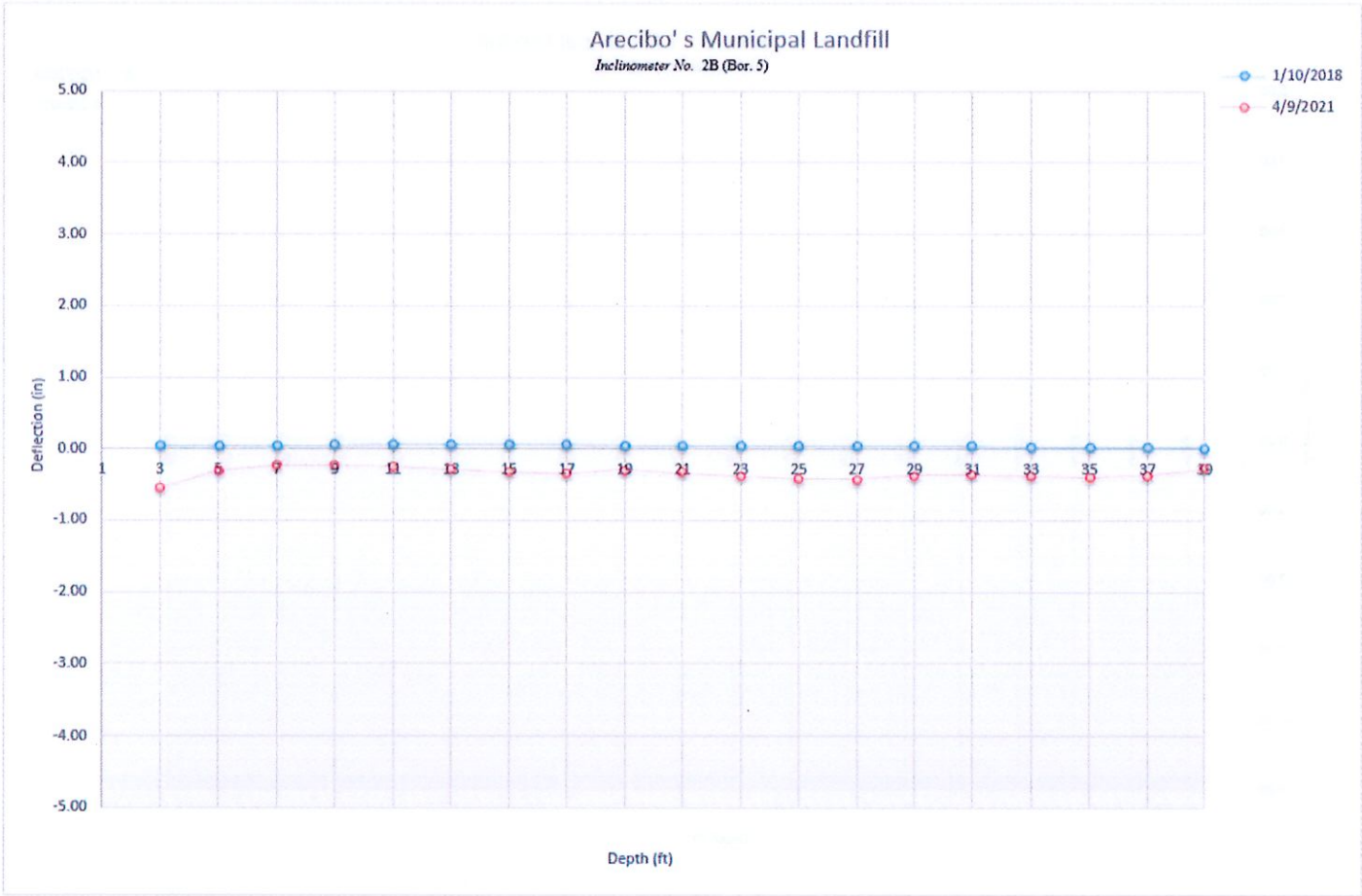

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FIGURE 2 Cont.

Inclinometer 2 – Axis B
Deflection Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

Project:	Arecibo' s Municipal Landfill
Date:	4/9/2021
Inclinometer No.	2A (Bor. 5)

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Orientation of A-axis | *Depth (ft):* 45 | *Read:* 3

Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	6	-16	10	22	-1367	1389	0.8331	1.4463
5.0	-394	410	16	-804	-1348	544	0.3264	0.6132
7.0	-745	740	5	-1485	-1605	120	0.0717	0.2868
9.0	-817	816	1	-1633	-1852	219	0.1314	0.2151
11.0	-970	968	2	-1938	-2051	113	0.0678	0.0837
13.0	-1044	1045	1	-2089	-2163	74	0.0444	0.0159
15.0	-1109	1104	5	-2213	-2314	101	0.0606	-0.0285
17.0	-1220	1220	0	-2440	-2585	145	0.0867	-0.0891
19.0	-1315	1313	2	-2628	-2625	-4	-0.0021	-0.1758
21.0	-1295	1290	5	-2585	-2496	-90	-0.0537	-0.1737
23.0	-1208	1210	2	-2418	-2370	-48	-0.0288	-0.1200
25.0	-1188	1183	5	-2371	-2359	-12	-0.0072	-0.0912
27.0	-1218	1217	1	-2435	-2538	103	0.0618	-0.0840
29.0	-1306	1308	2	-2614	-2636	22	0.0132	-0.1458
31.0	-1340	1340	0	-2680	-2740	60	0.0357	-0.1590
33.0	-1410	1408	2	-2818	-2877	59	0.0354	-0.1947
35.0	-1459	1456	3	-2915	-2909	-6	-0.0036	-0.2301
37.0	-1486	1484	2	-2970	-3016	46	0.0273	-0.2265
39.0	-1475	1468	7	-2943	-2806	-137	-0.0822	-0.2538
41.0	-1361	1359	2	-2720	-2657	-64	-0.0381	-0.1716
43.0	-1304	1300	4	-2604	-2542	-62	-0.0372	-0.1335
45.0	-1252	1238	14	-2490	-2330	-161	-0.0963	-0.0963

Project:	Arecibo' s Municipal Landfill
Date:	4/9/2021
Inclinometer No.	2B (Bor. 5)

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Orientation of B-axis				*Depth (ft):*	45		*Read:*	3
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	-916	853	63	-1769	-1360	-409	-0.2454	-0.5445
5.0	-801	739	62	-1540	-1398	-142	-0.0852	-0.2991
7.0	-753	682	71	-1435	-1457	22	0.0132	-0.2139
9.0	-804	723	81	-1527	-1547	20	0.012	-0.2271
11.0	-850	771	79	-1621	-1696	75	0.045	-0.2391
13.0	-912	846	66	-1758	-1824	66	0.0393	-0.2841
15.0	-972	885	87	-1857	-1869	12	0.0072	-0.3234
17.0	-952	877	75	-1829	-1759	-70	-0.042	-0.3306
19.0	-926	842	84	-1768	-1837	69	0.0414	-0.2886
21.0	-984	905	79	-1889	-1956	67	0.0402	-0.3300
23.0	-1053	969	84	-2022	-2080	58	0.0348	-0.3702
25.0	-1103	1022	81	-2125	-2152	27	0.0159	-0.4050
27.0	-1068	1000	68	-2068	-1971	-98	-0.0585	-0.4209
29.0	-1013	923	90	-1936	-1920	-17	-0.0099	-0.3624
31.0	-1019	927	92	-1946	-1976	30	0.0177	-0.3525
33.0	-1061	981	80	-2042	-2083	41	0.0246	-0.3702
35.0	-1100	1018	82	-2118	-2067	-51	-0.0306	-0.3948
37.0	-996	934	62	-1930	-1775	-155	-0.093	-0.3642
39.0	-869	791	78	-1660	-1570	-91	-0.0543	-0.2712
41.0	-794	704	90	-1498	-1472	-26	-0.0156	-0.2169
43.0	-768	692	76	-1460	-1329	-132	-0.0789	-0.2013
45.0	-637	554	83	-1191	-987	-204	-0.1224	-0.1224

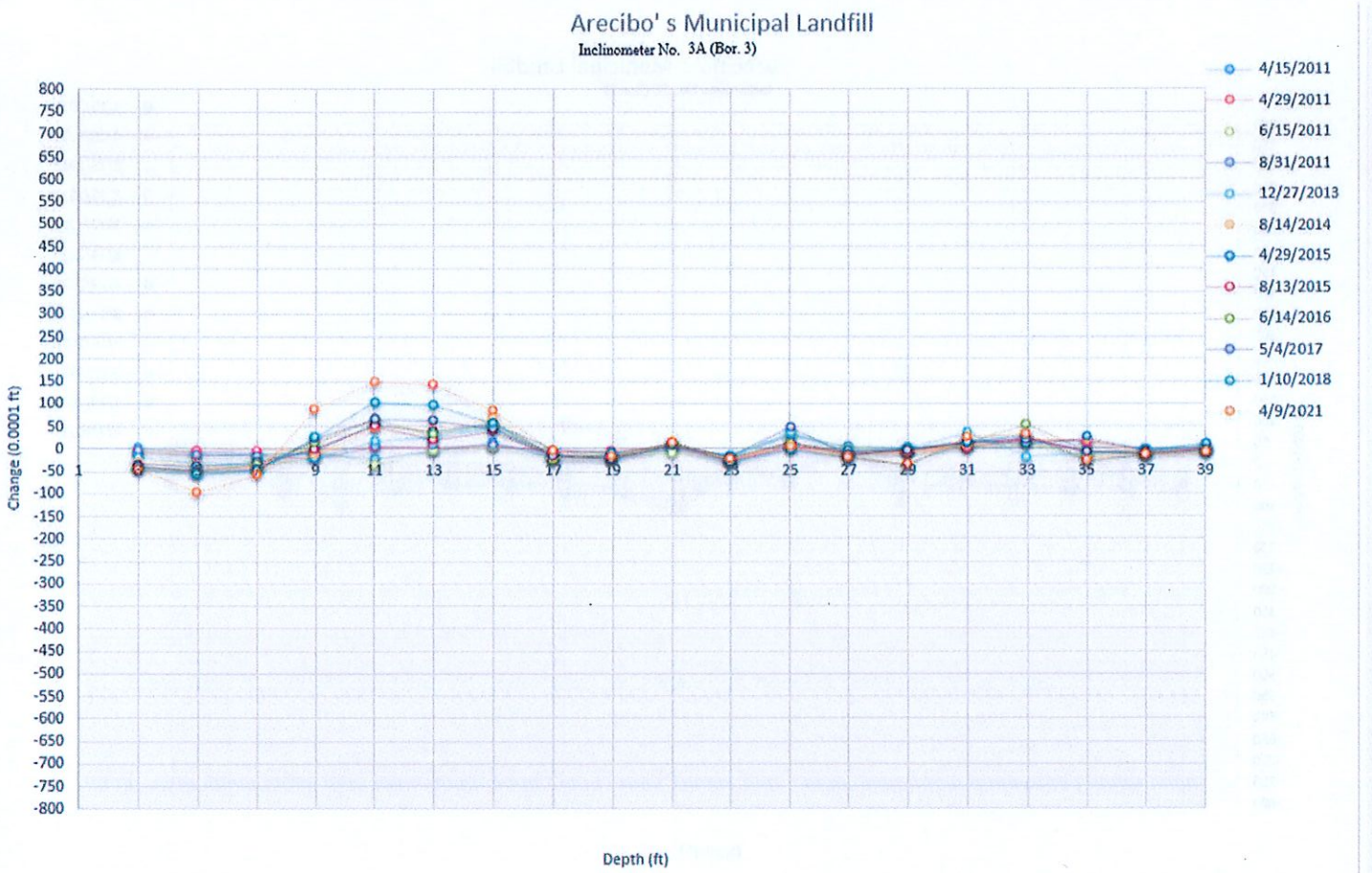

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FIGURE 3

Inclinometer 3 – Axis A
Change Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

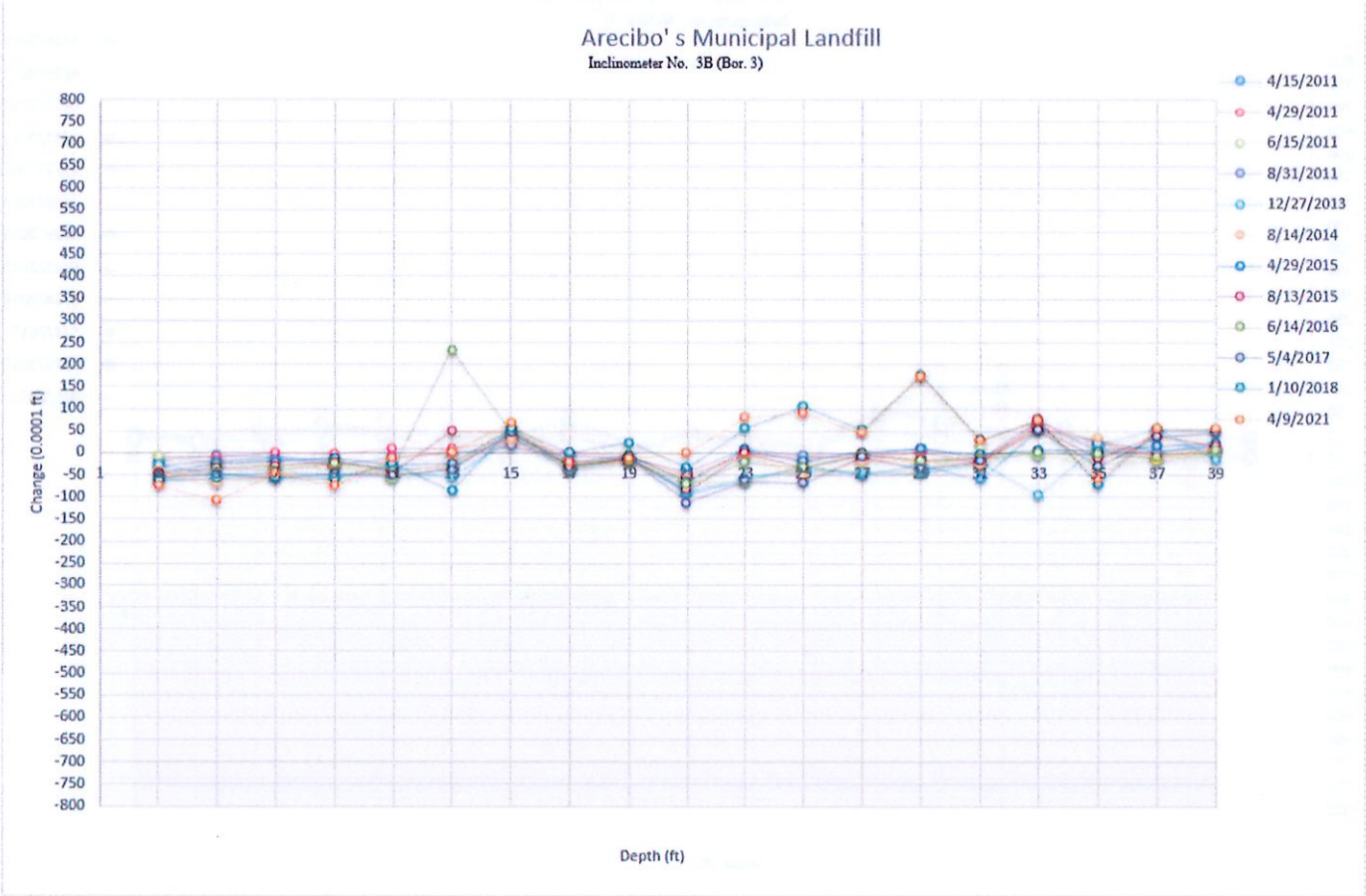

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FIGURE 3 Cont.

Inclinometer 3 – Axis B
Change Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

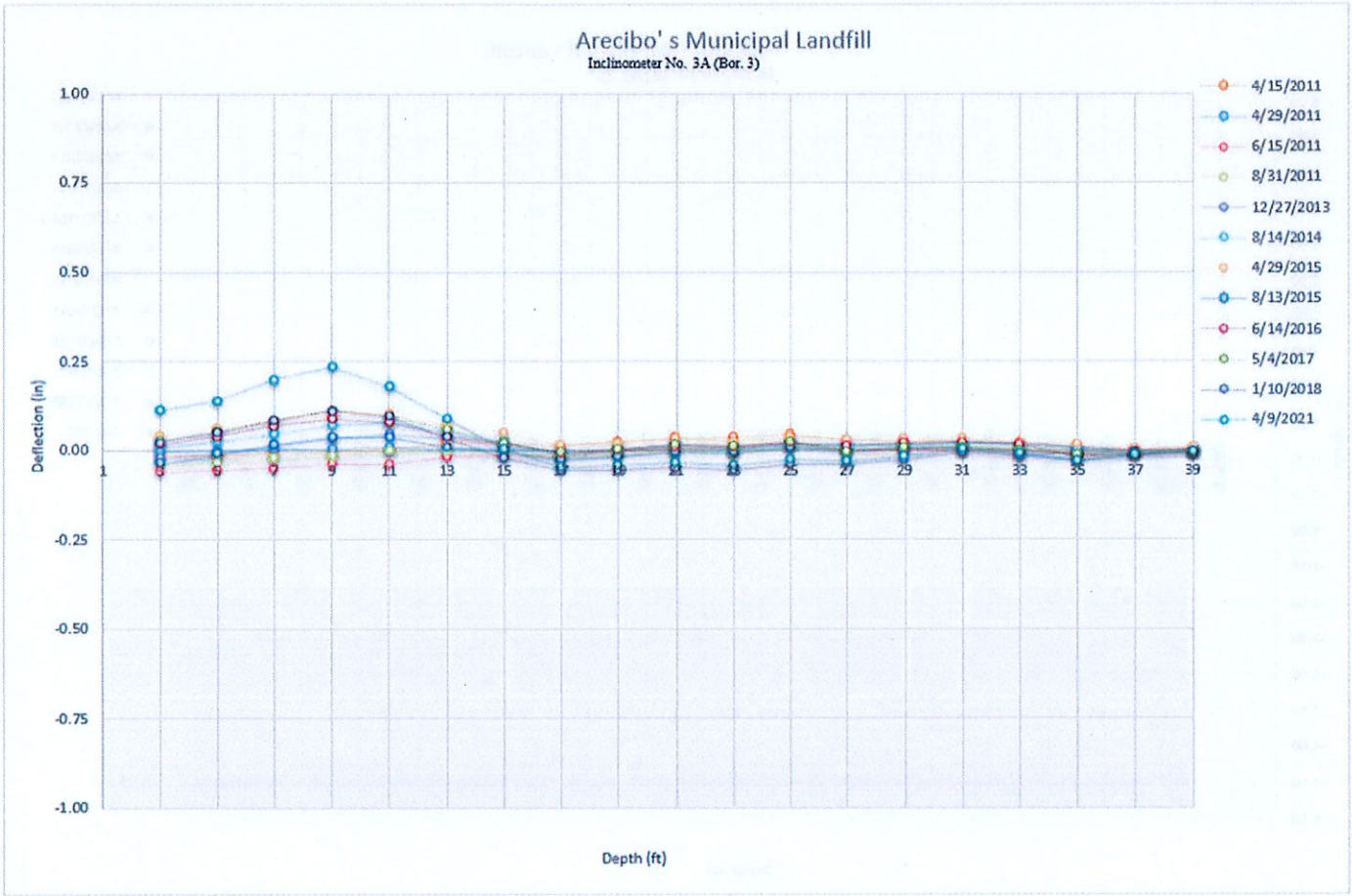

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FIGURE 3 Cont.

Inclinometer 3 – Axis A
Deflection Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

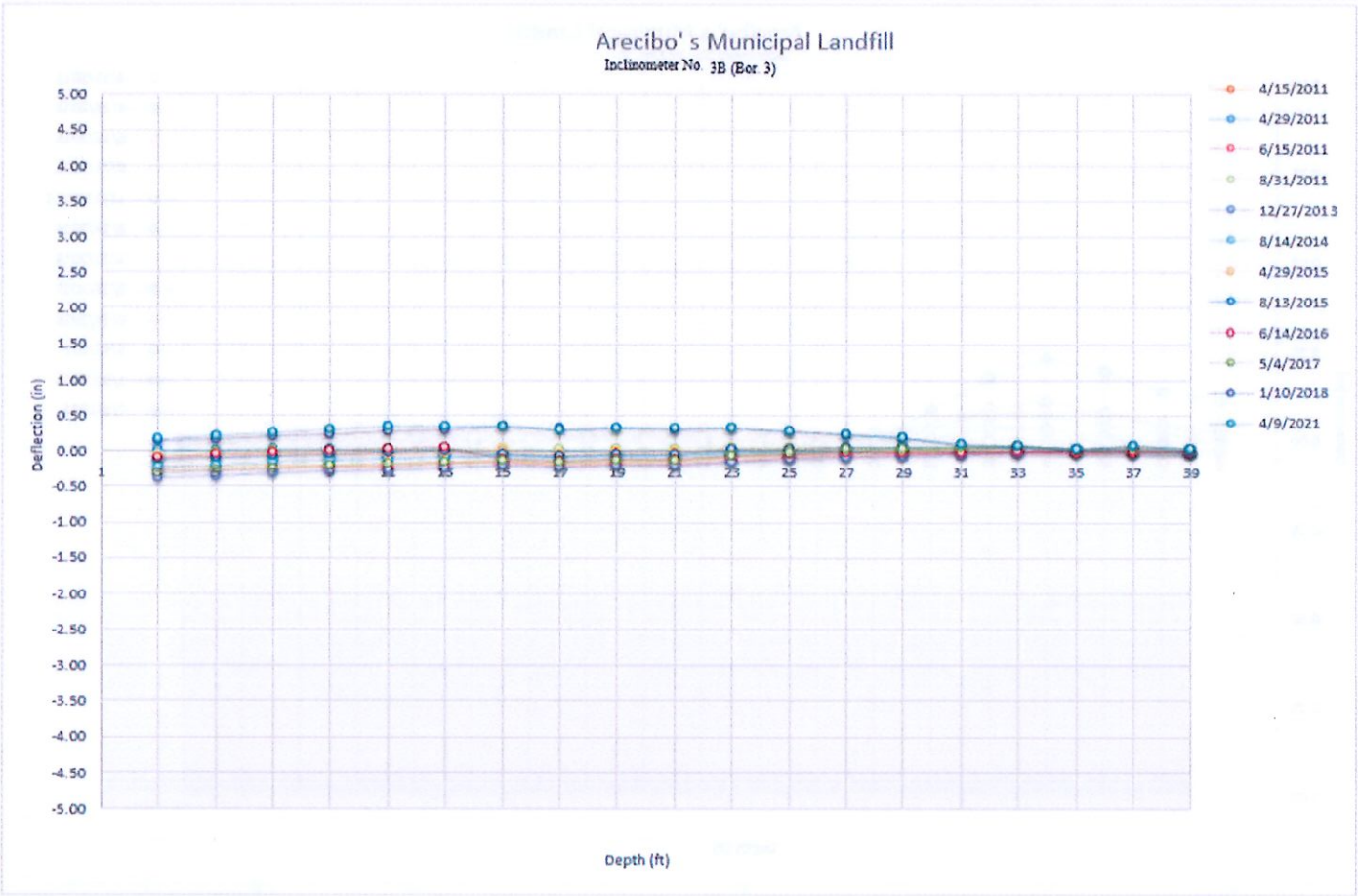

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FIGURE 3 Cont.

Inclinometer 3 – Axis B
Deflection Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

Project:	Arecibo' s Municipal Landfill
Date:	4/9/2021
Inclinometer No.	3A (Bor. 3)

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Orientation of A-axis | *Depth (ft):* 39 | *Read:* 13

Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	-252	245	7	-497	-452	-46	-0.0273	0.1131
5.0	-287	281	6	-568	-471	-98	-0.0585	0.1404
7.0	-273	265	8	-538	-481	-58	-0.0345	0.1989
9.0	-217	207	10	-424	-514	90	0.054	0.2334
11.0	-248	222	26	-470	-620	150	0.09	0.1794
13.0	-228	271	43	-499	-641	142	0.0849	0.0894
15.0	-473	500	27	-973	-1057	84	0.0501	0.0045
17.0	-624	610	14	-1234	-1230	-5	-0.0027	-0.0456
19.0	-611	602	9	-1213	-1196	-17	-0.0102	-0.0429
21.0	-648	643	5	-1291	-1306	15	0.009	-0.0327
23.0	-697	686	11	-1383	-1359	-25	-0.0147	-0.0417
25.0	-697	695	2	-1392	-1396	4	0.0024	-0.0270
27.0	-696	687	9	-1383	-1362	-21	-0.0126	-0.0294
29.0	-693	716	23	-1409	-1374	-36	-0.0213	-0.0168
31.0	-651	671	20	-1322	-1348	26	0.0153	0.0045
33.0	-590	582	8	-1172	-1205	33	0.0195	-0.0108
35.0	-570	567	3	-1137	-1111	-27	-0.0159	-0.0303
37.0	-631	627	4	-1258	-1244	-14	-0.0084	-0.0144
39.0	-601	596	5	-1197	-1187	-10	-0.006	-0.0060

Project:	Arecibo' s Municipal Landfill
Date:	4/9/2021
Inclinometer No.	3B (Bor. 3)

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Orientation of B-axis				*Depth (ft):*	39		*Read:*	13
Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	-90	-3	93	-87	-14	-74	-0.0441	0.1533
5.0	26	-104	78	130	238	-108	-0.0648	0.1974
7.0	151	-227	76	378	426	-48	-0.0288	0.2622
9.0	129	-190	61	319	394	-75	-0.0447	0.2910
11.0	225	-287	62	512	524	-12	-0.0069	0.3357
13.0	60	-239	179	299	297	2	0.0012	0.3426
15.0	175	-362	187	537	470	67	0.0402	0.3414
17.0	215	-302	87	517	541	-24	-0.0141	0.3012
19.0	174	-247	73	421	434	-13	-0.0075	0.3153
21.0	10	-84	74	94	96	-2	-0.0009	0.3228
23.0	-116	36	80	-152	-232	80	0.048	0.3237
25.0	-216	43	173	-259	-348	89	0.0534	0.2757
27.0	-116	-1	117	-115	-162	47	0.0282	0.2223
29.0	-62	-145	207	83	-91	174	0.1041	0.1941
31.0	8	-200	192	208	182	27	0.0159	0.0900
33.0	139	-195	56	334	261	73	0.0438	0.0741
35.0	-51	-5	56	-46	16	-62	-0.0369	0.0303
37.0	-59	-12	71	-47	-103	56	0.0333	0.0672
39.0	-37	34	3	-71	-128	57	0.0339	0.0339

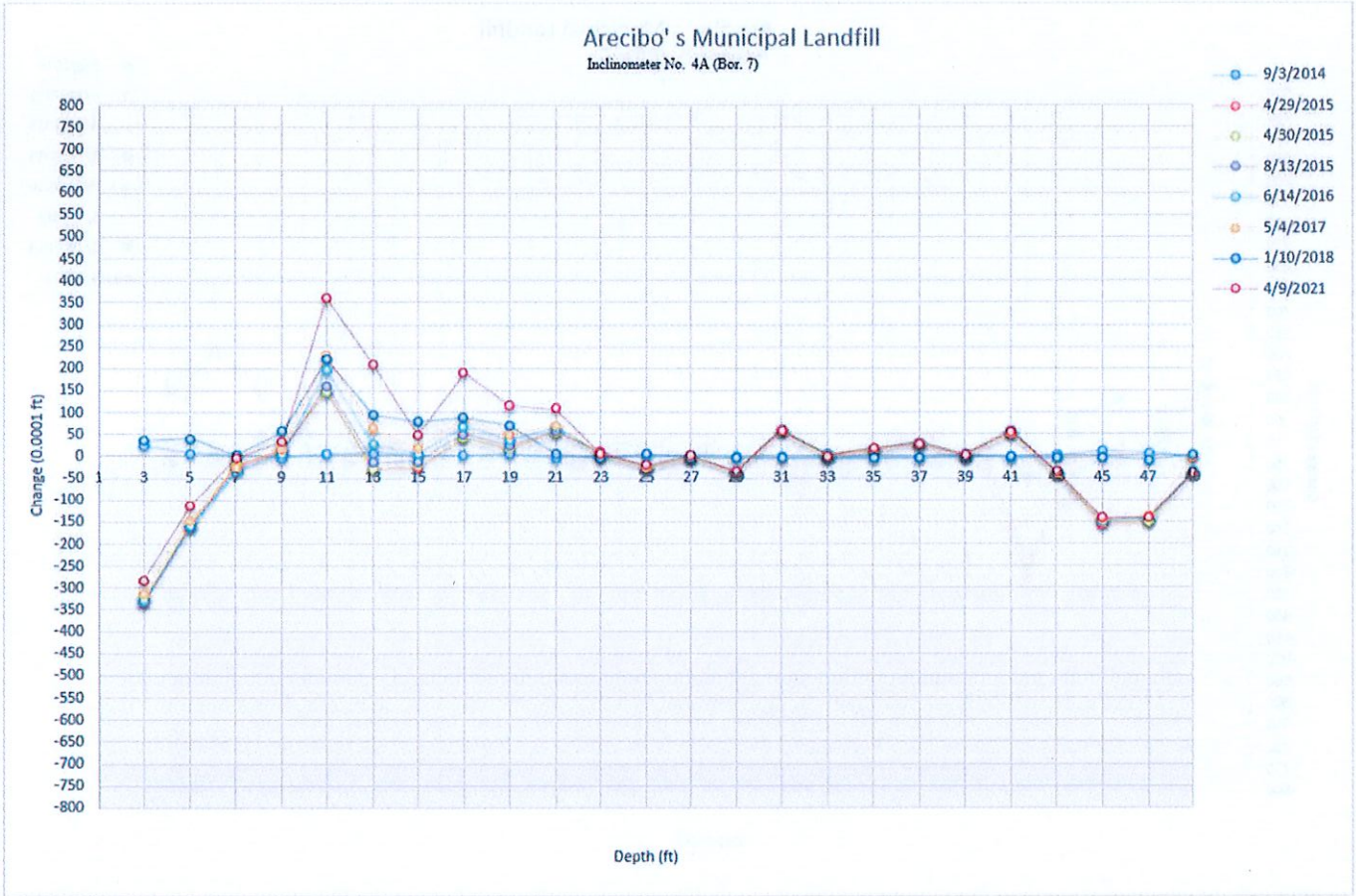

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FIGURE 4

Inclinometer 4 – Axis A
Change Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

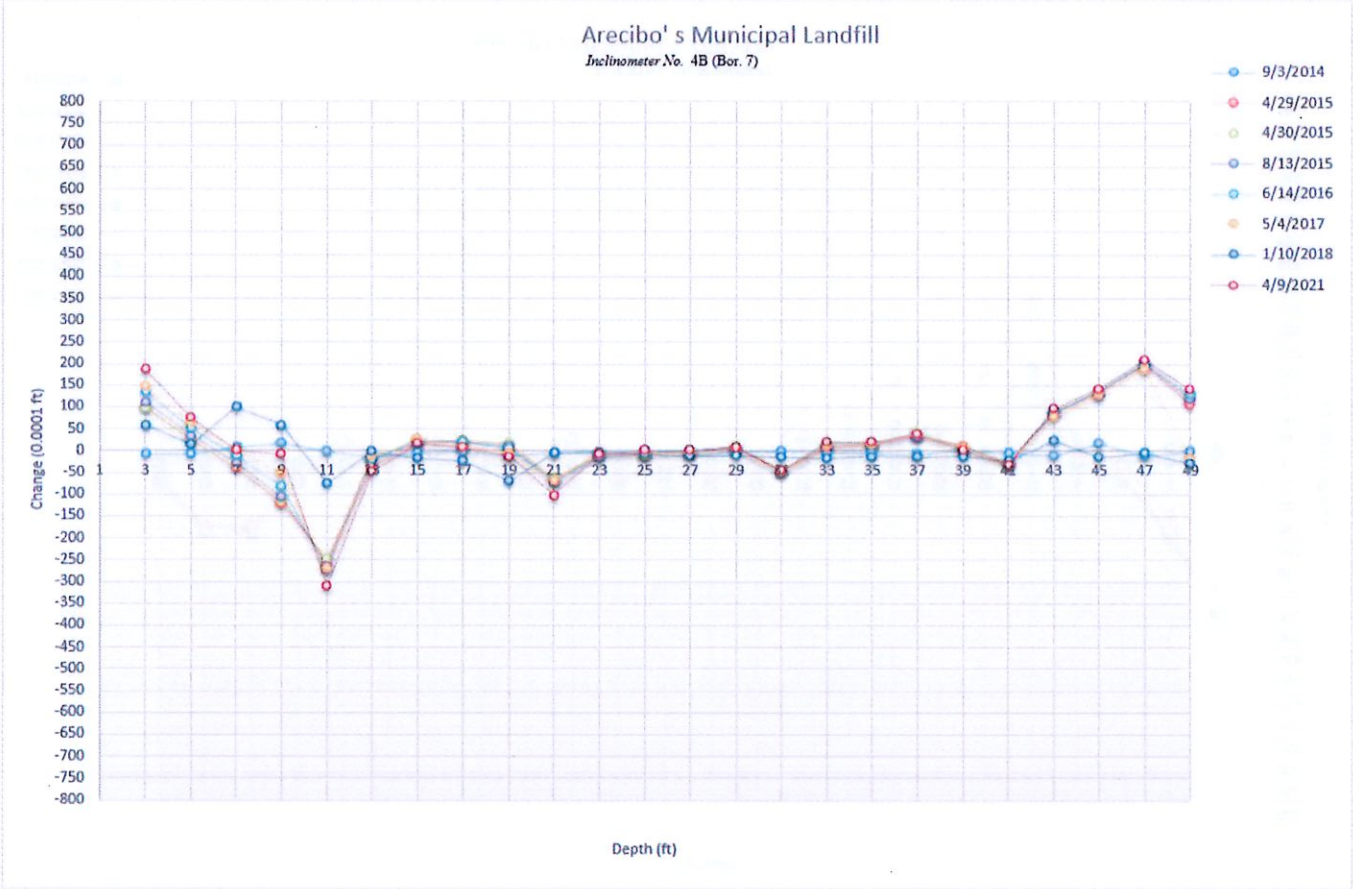

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FIGURE 4 Cont.

Inclinometer 4 – Axis B
Change Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

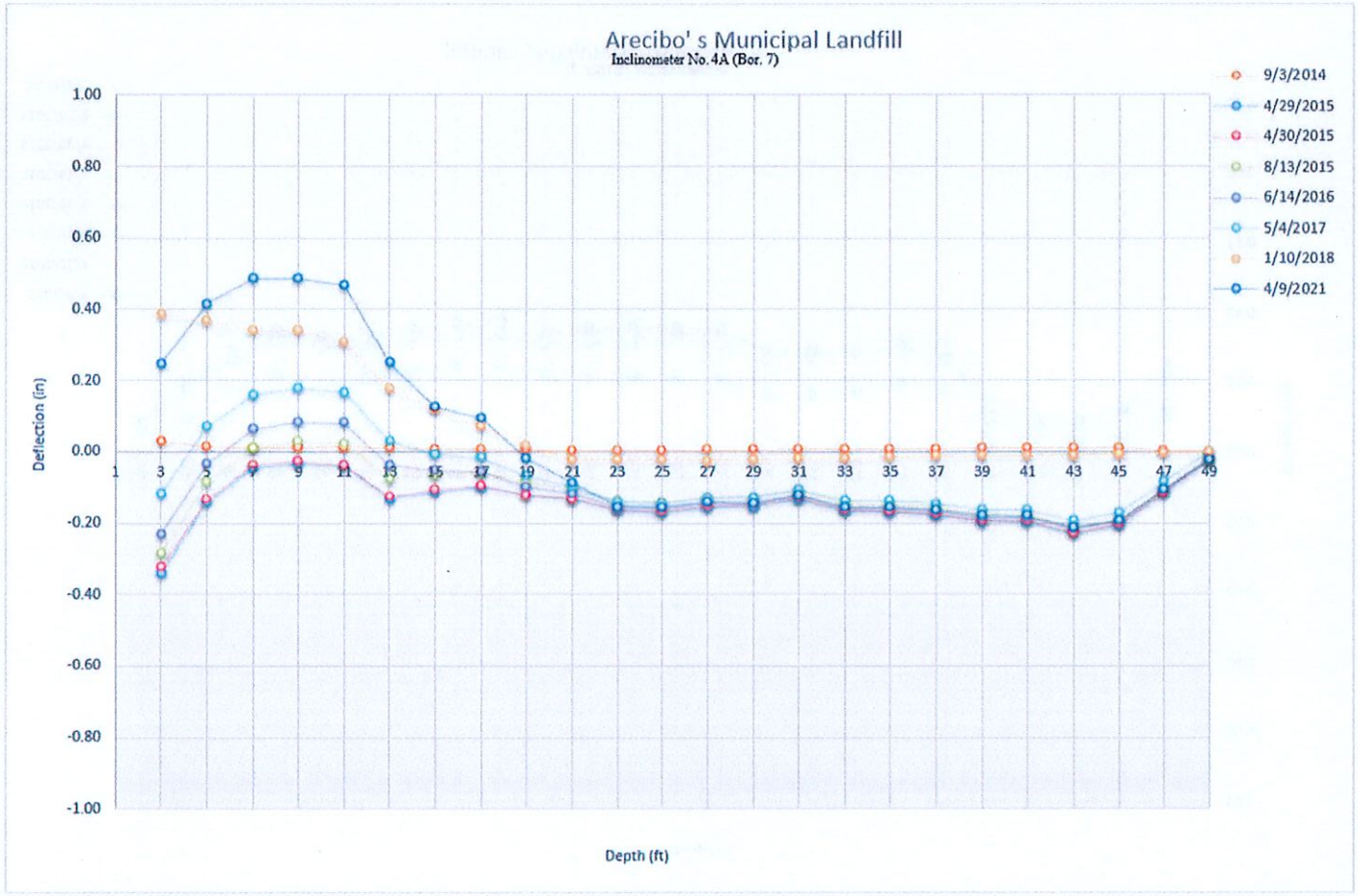

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FIGURE 4 Cont.

Inclinometer 4 – Axis A
Deflection Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

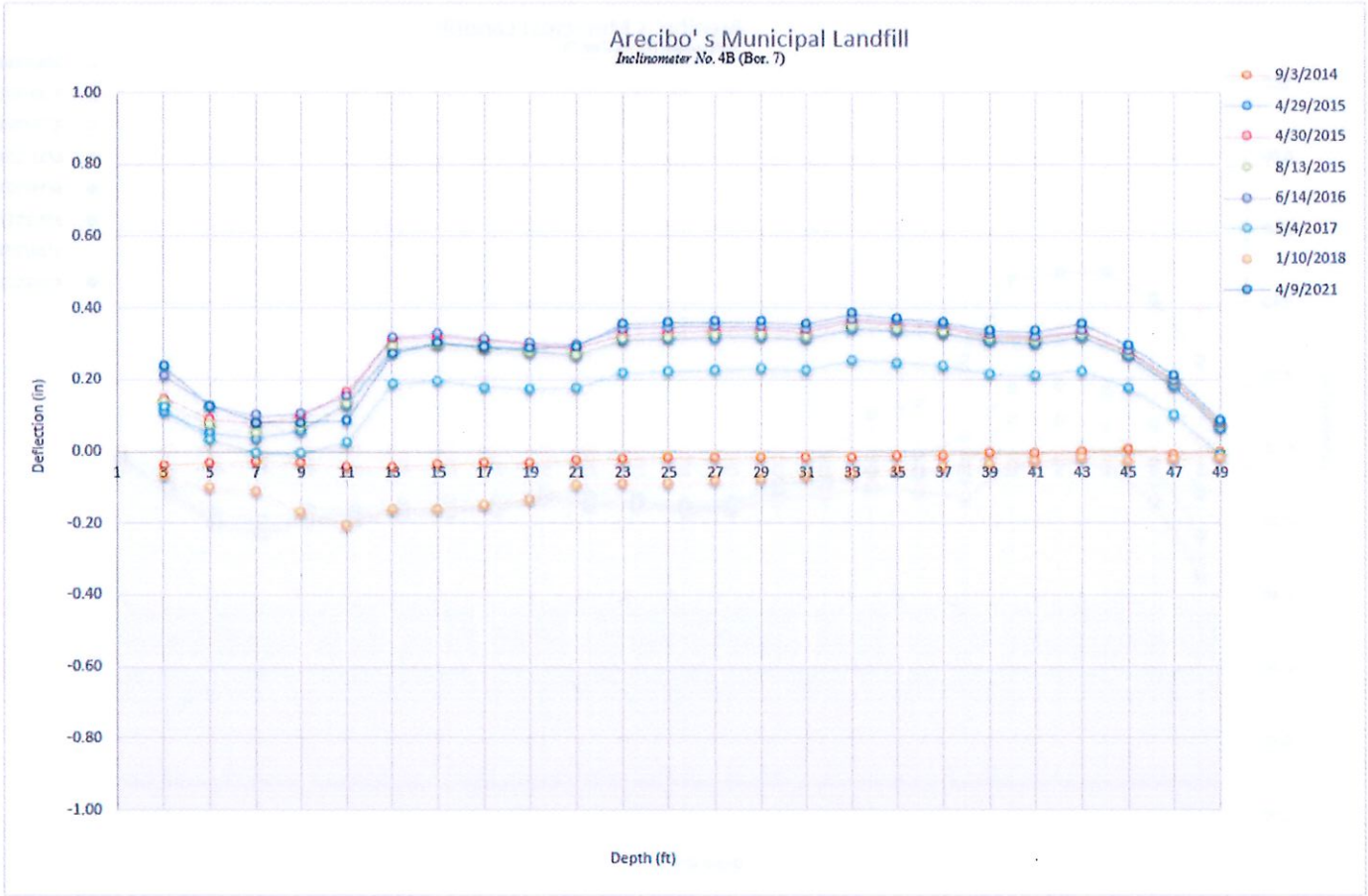

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FIGURE 4 Cont.

Inclinometer 4 – Axis B
Deflection Chart

INSTRUMENTATION MONITORING FOR
ARECIBO'S MUNICIPAL LANDFILL
ARECIBO, PUERTO RICO

Project:	Arecibo' s Municipal Landfill
Date:	4/9/2021
Inclinometer No.	4A (Bor. 7)

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Orientation of A-axis — *Depth (ft):* 49 — *Read:* 9

Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	906	-909	3	1815	2096	-281	-0.1686	0.2466
5.0	1196	-1205	9	2401	2515	-114	-0.0681	0.4152
7.0	1314	-1328	14	2642	2648	-6	-0.0033	0.4833
9.0	1336	-1340	4	2676	2643	34	0.0201	0.4866
11.0	1399	-1409	10	2808	2448	361	0.2163	0.4665
13.0	1361	-1364	3	2725	2516	210	0.1257	0.2502
15.0	1340	-1350	10	2690	2641	49	0.0294	0.1245
17.0	1405	-1413	8	2818	2627	191	0.1146	0.0951
19.0	1360	-1367	7	2727	2612	116	0.0693	-0.0195
21.0	1341	-1348	7	2689	2582	108	0.0645	-0.0888
23.0	1266	-1277	11	2543	2540	4	0.0021	-0.1533
25.0	1267	-1282	15	2549	2570	-21	-0.0126	-0.1554
27.0	1286	-1299	13	2585	2585	1	0.0003	-0.1428
29.0	1280	-1293	13	2573	2610	-37	-0.0222	-0.1431
31.0	1293	-1305	12	2598	2540	59	0.0351	-0.1209
33.0	1258	-1268	10	2526	2526	0	0	-0.1560
35.0	1247	-1259	12	2506	2491	16	0.0093	-0.1560
37.0	1219	-1230	11	2449	2423	26	0.0156	-0.1653
39.0	1192	-1203	11	2395	2394	1	0.0006	-0.1809
41.0	1156	-1167	11	2323	2269	55	0.0327	-0.1815
43.0	1135	-1150	15	2285	2319	-34	-0.0204	-0.2142
45.0	1200	-1218	18	2418	2560	-142	-0.0852	-0.1938
47.0	1363	-1379	16	2742	2884	-142	-0.0849	-0.1086
49.0	1471	-1480	9	2951	2991	-40	-0.0237	-0.0237

Project:	Arecibo' s Municipal Landfill
Date:	4/9/2021
Inclinometer No.	4B (Bor. 7)

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Orientation of B-axis | *Depth (ft):* 49 | *Read:* 9

Depth (ft)	Reading 1	Reading 2	Diff.	B - C	Initial	Change	G*.0006	Deflection
3.0	-575	499	76	-1074	-1261	187	0.1119	0.2376
5.0	-670	601	69	-1271	-1346	75	0.0447	0.1257
7.0	-674	606	68	-1280	-1280	0	0	0.0810
9.0	-561	493	68	-1054	-1045	-9	-0.0054	0.0810
11.0	-449	382	67	-831	-521	-310	-0.186	0.0864
13.0	-275	217	58	-492	-445	-47	-0.0282	0.2724
15.0	-272	202	70	-474	-492	18	0.0105	0.3006
17.0	-310	240	70	-550	-557	7	0.0039	0.2901
19.0	-355	285	70	-640	-629	-12	-0.0069	0.2862
21.0	-378	312	66	-690	-588	-102	-0.0612	0.2931
23.0	-322	249	73	-571	-563	-8	-0.0048	0.3543
25.0	-314	241	73	-555	-555	-1	-0.0003	0.3591
27.0	-317	238	79	-555	-555	0	0	0.3594
29.0	-321	243	78	-564	-570	6	0.0036	0.3594
31.0	-325	255	70	-580	-536	-44	-0.0264	0.3558
33.0	-306	218	88	-524	-545	21	0.0123	0.3822
35.0	-325	245	80	-570	-590	20	0.012	0.3699
37.0	-357	288	69	-645	-685	40	0.0237	0.3579
39.0	-409	333	76	-742	-743	1	0.0006	0.3342
41.0	-405	327	78	-732	-698	-34	-0.0204	0.3336
43.0	-430	359	71	-789	-886	97	0.0582	0.3540
45.0	-547	464	83	-1011	-1154	143	0.0855	0.2958
47.0	-693	632	61	-1325	-1535	210	0.1257	0.2103
49.0	-902	841	61	-1743	-1884	141	0.0846	0.0846

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