

NSP Phase 3 Thornwood Park Project
Wilmette, Illinois

**VIBRATION
MONITORING
REPORT-10**

Mike Zika
Berger Excavating
1205 Garland Rd
Wauconda, IL 60084

October 10, 2022

Cti



4262 Old Grand Ave
Suite 102
Chicago, IL 60031

October 10, 2022

Mike Zika
Berger Excavating
1205 Garland Rd
Wauconda, IL 60084

RE: **Report 10:** - *Ground Vibration Monitoring for the Wilmette NSP Phase 3 Thornwood Park Project located in Wilmette, Illinois.*

Mr. Zika,

Construction Testing and Instrumentation, Inc. (CTI) have prepared this vibration monitoring report to evaluate vibrations during all construction activities. This report summarizes the results of ground vibration monitoring for three seismographs, all located around the surrounding project site (see attached location diagram). This summary report covers the monitoring period from **September 26, 2022 through October 10, 2022.**

The vibration equipment at the site are Geosonic seismographs that have the capacity to record peak particle velocity (PPV) and frequency (Hertz). The maximum allowable peak particle velocity is 0.50 inches per second (IPS), which is based upon the specifications established by the U.S Bureau of Mines (USBM) and a typical threshold for construction vibration monitoring. The seismographs are set to trigger whenever vibration levels exceed 0.003 in/s lowest (PPV) and continuously monitor vibrations during all construction activities.

All vibration recordings during this report period have been below the 0.50-inch per second threshold limit. The maximum PPV for the monitoring period are below.

October 7, 2022	Southwest Corner of Park	Unit #3734	T	0.123 (in/s)
October 4, 2022	2345 Thornwood Avenue	Unit #3733	T	0.250 (in/s)
October 8, 2022	East Side of Park – Colgate St.	Unit #3647	V	0.285 (in/s)


V- Vertical Vibration
T- Transversal Vibration
L- Longitudinal Vibration

Sincerely,

Daniel W. McCarthy
Senior Instrumentation Engineer

NSP Phase 3 Thornwood Park Seismograph Locations



 Seismograph Location

SN: 3734 v3.22
Date: 09/26/2022 **Time:** 12:22:00
Event: 128
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

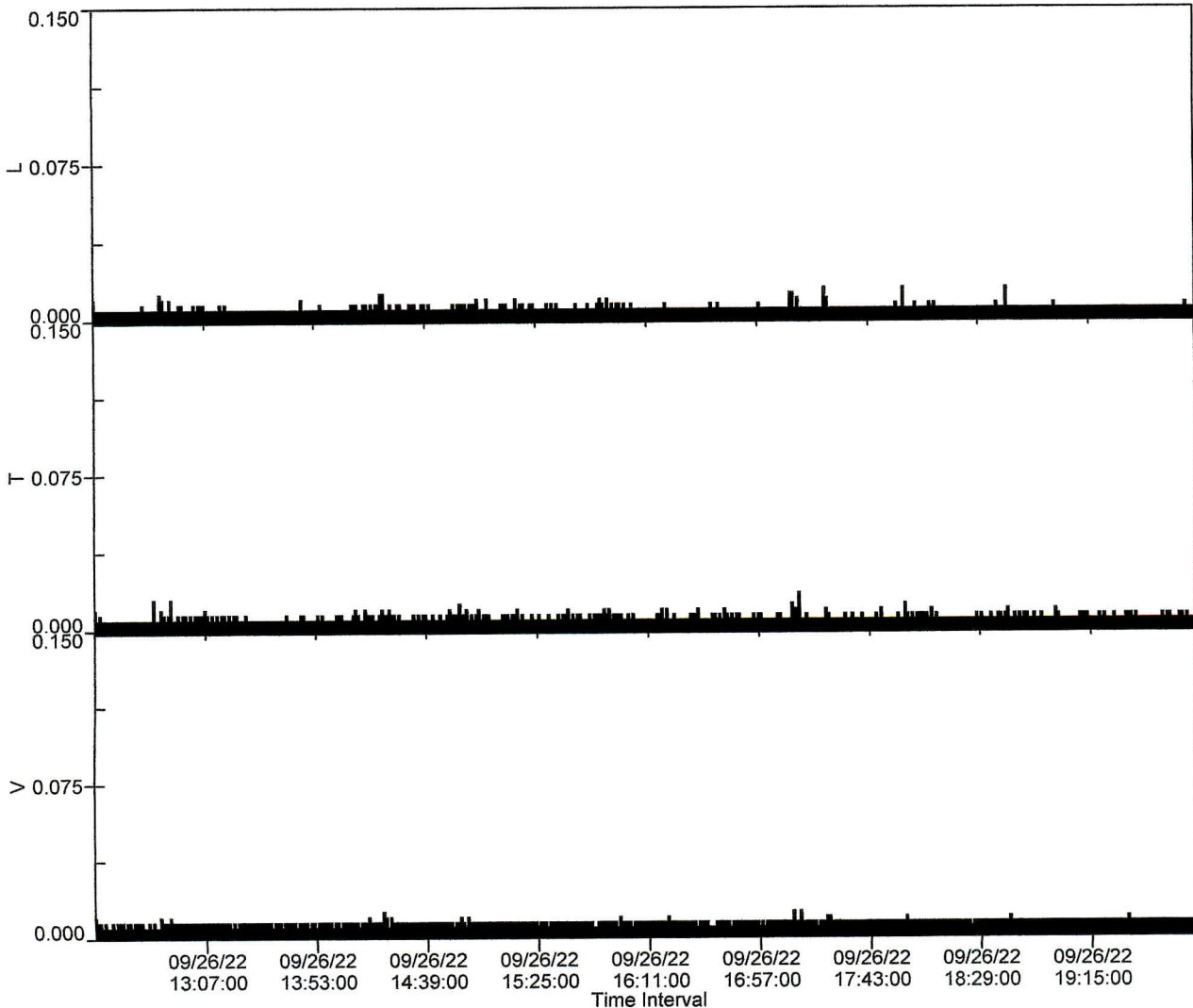
	L	T	V
PPV (in/s)	0.015	0.018	0.013
FREQ (Hz)	250.0	18.5	166.7
Peak Air Pressure:	95 db		
Recording Time:	457 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 128

Record Max PPV: 0.018 in/s Record Max DB: 95 db



SN: 3734 v3.22
Date: 09/27/2022 **Time:** 06:01:00
Event: 129
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.023	0.018
FREQ (Hz)	500.0	19.2	50.0
Peak Air Pressure:	94 db		

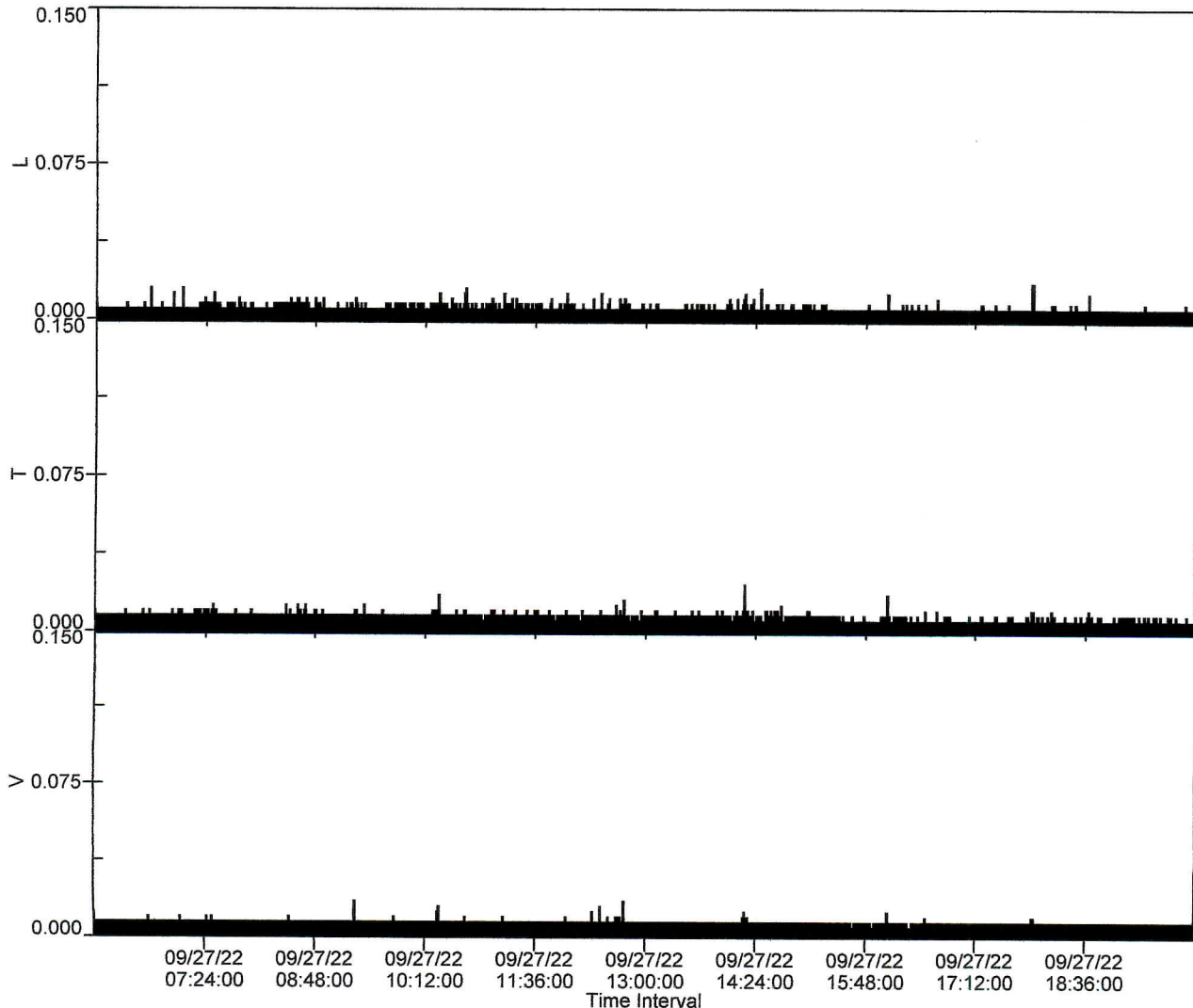
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 129

Record Max PPV: 0.023 in/s Record Max DB: 94 db



SN: 3734 v3.22
Date: 09/28/2022 **Time:** 06:01:00
Event: 130
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.030	0.020
FREQ (Hz)	23.8	29.4	22.7
Peak Air Pressure:	87 db		

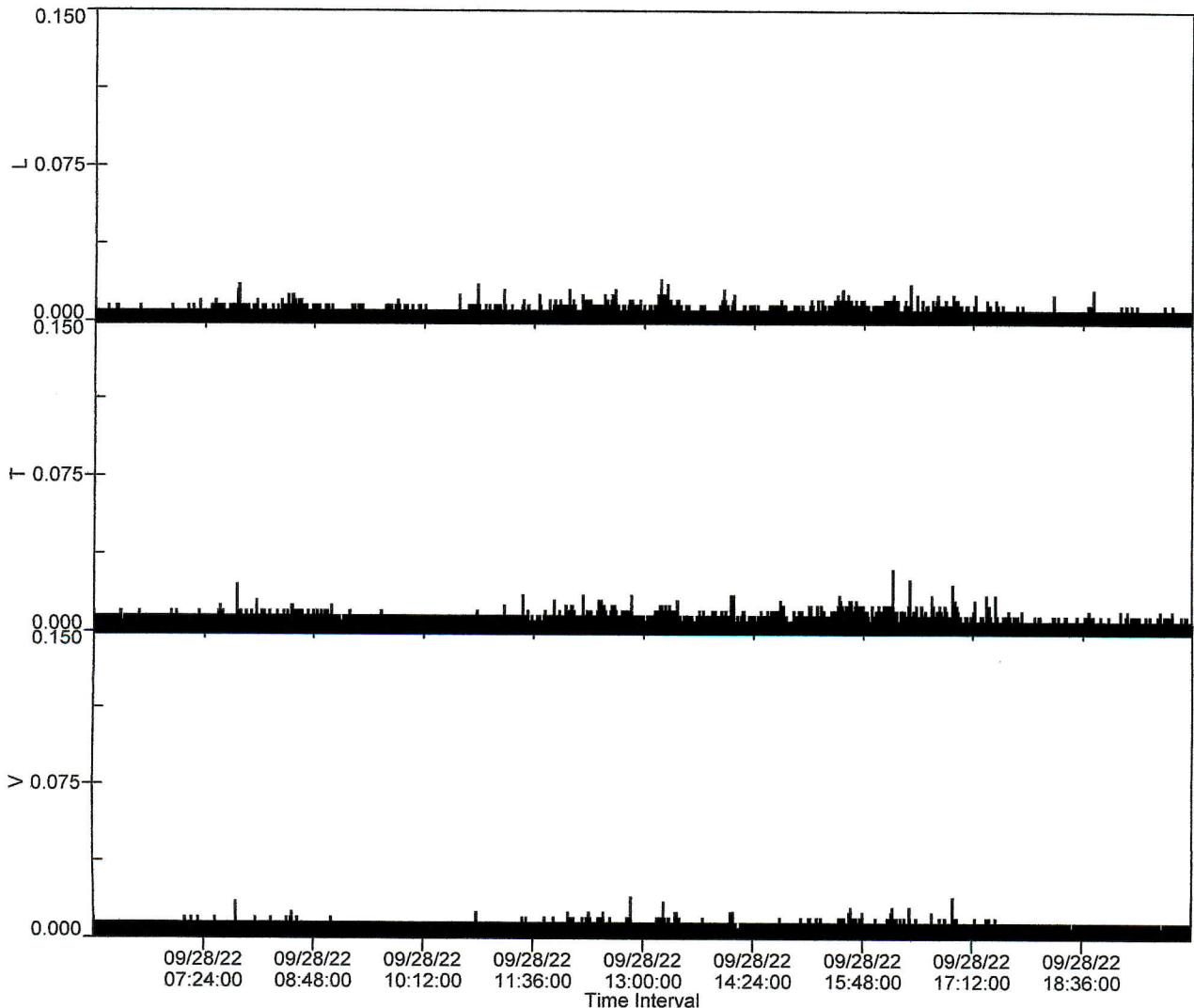
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 130

Record Max PPV: 0.030 in/s Record Max DB: 87 db



SN: 3734 v3.22
Date: 09/29/2022 **Time:** 06:01:00
Event: 131
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.023	0.033	0.033
FREQ (Hz)	20.8	16.1	12.8
Peak Air Pressure:	90 db		

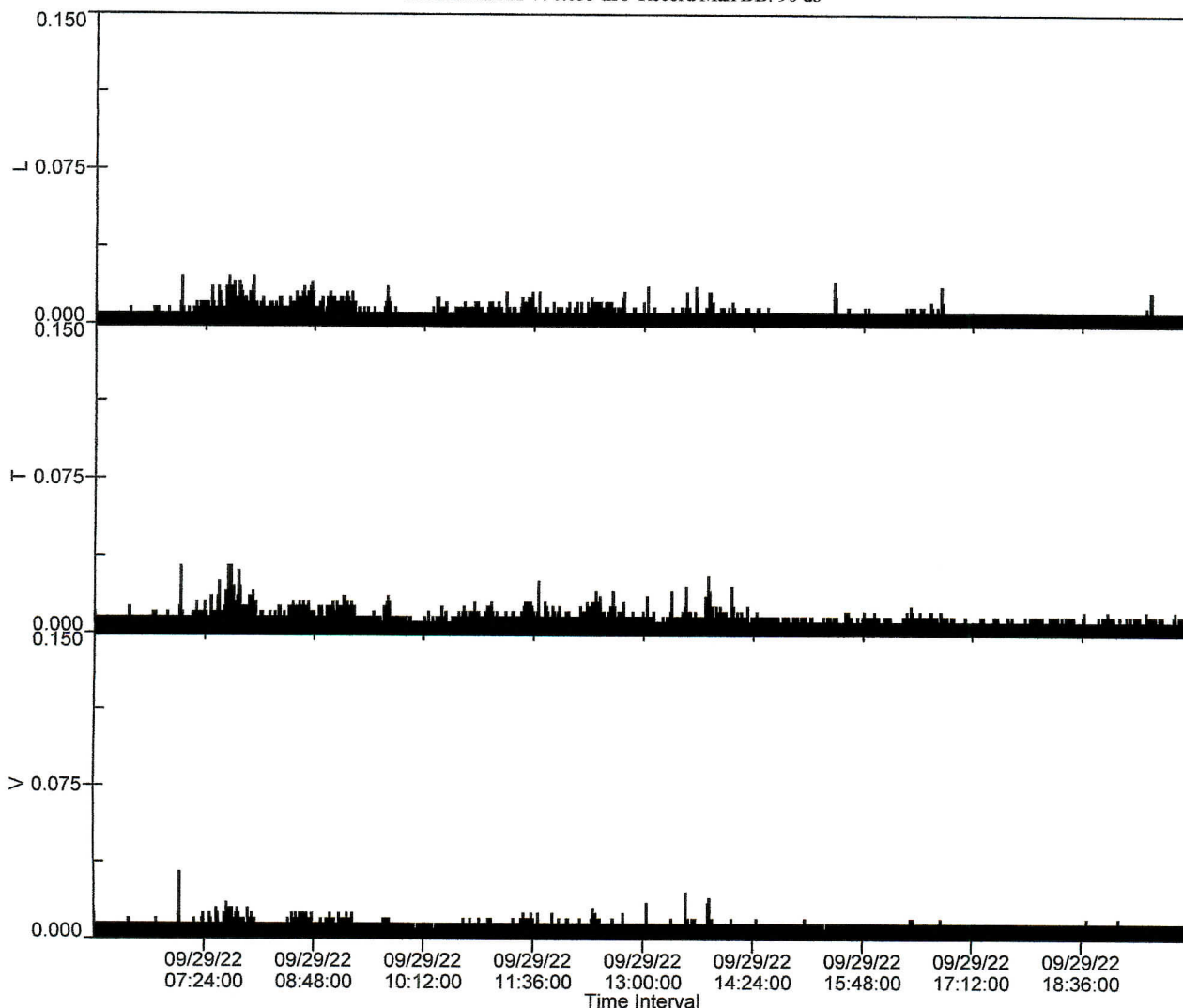
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 131

Record Max PPV: 0.033 in/s Record Max DB: 90 db



SN: 3734 v3.22
Date: 09/30/2022 **Time:** 06:01:00
Event: 132
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.028	0.018
FREQ (Hz)	166.7	20.8	10.6
Peak Air Pressure:	87 db		

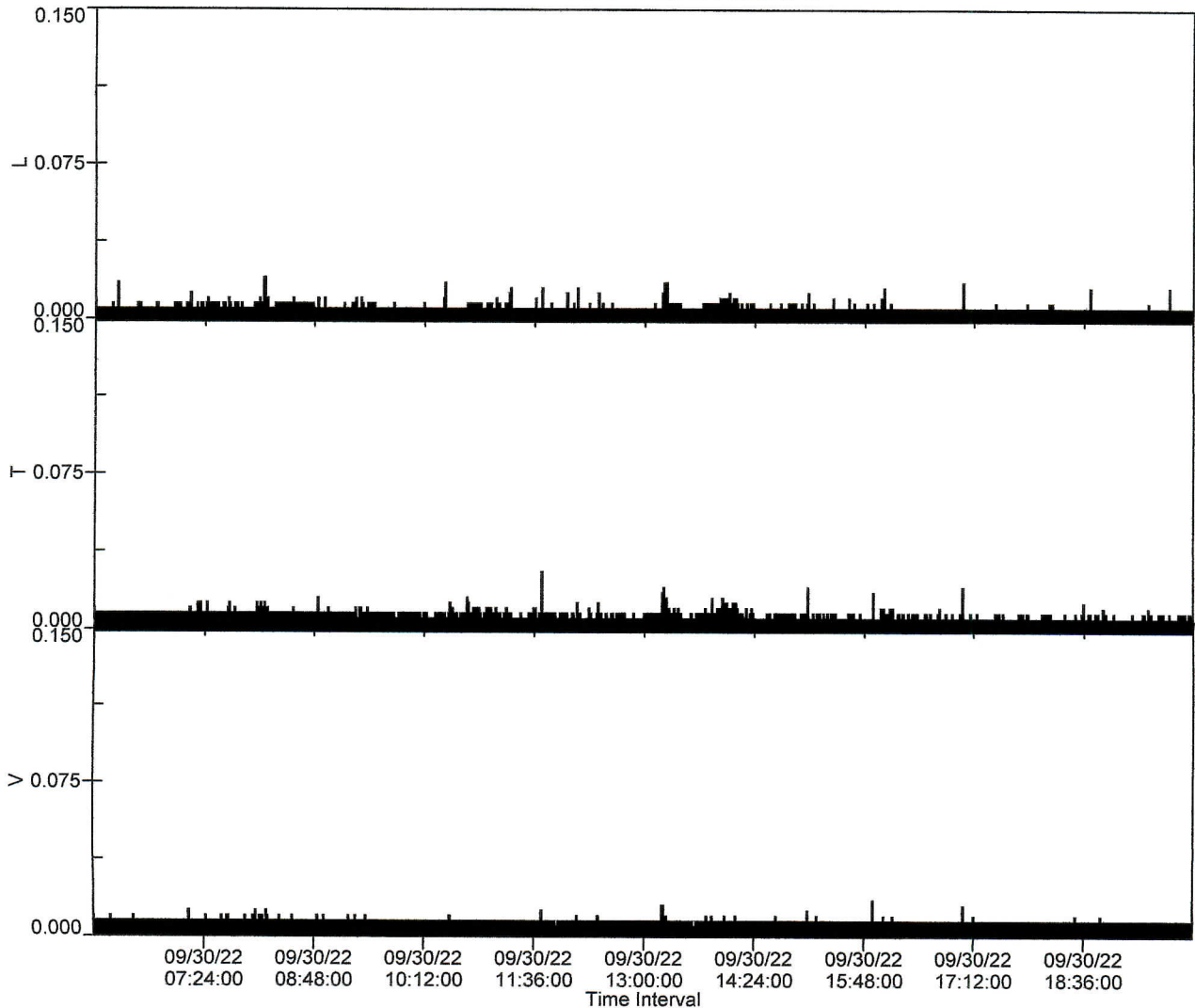
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 132

Record Max PPV: 0.028 in/s Record Max DB: 87 db



SN: 3734 v3.22
Date: 10/01/2022 **Time:** 06:01:00
Event: 133
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

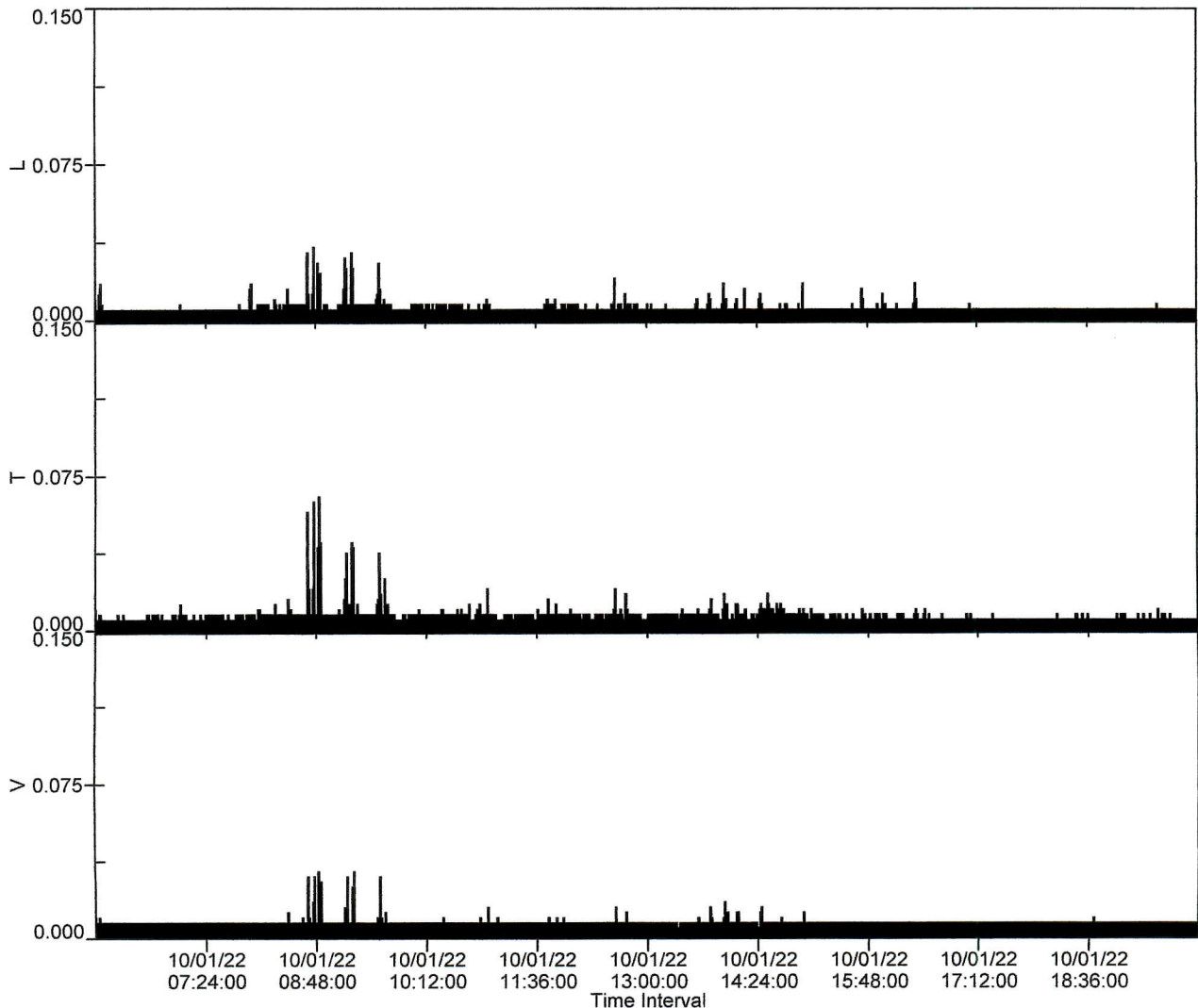
	L	T	V
PPV (in/s)	0.035	0.065	0.033
FREQ (Hz)	26.3	31.3	27.8
Peak Air Pressure:	92 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 133

Record Max PPV: 0.065 in/s Record Max DB: 92 db



SN: 3734 v3.22
Date: 10/02/2022 **Time:** 06:01:00
Event: 134
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.018	0.020	0.018
FREQ (Hz)	125.0	62.5	71.4
Peak Air Pressure:	90 db		

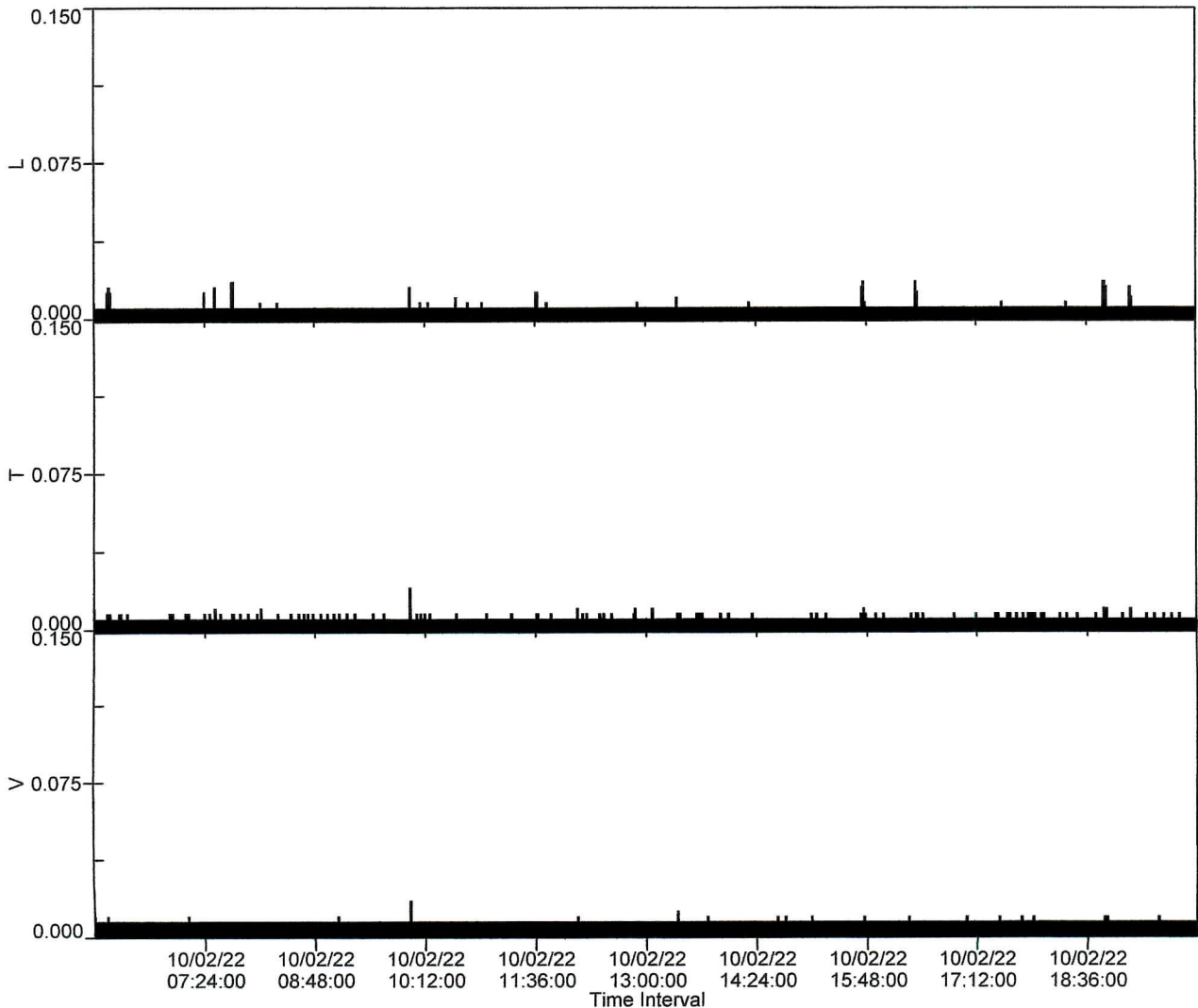
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 134

Record Max PPV: 0.020 in/s Record Max DB: 90 db



SN: 3734 v3.22
Date: 10/03/2022 **Time:** 12:16:00
Event: 136
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

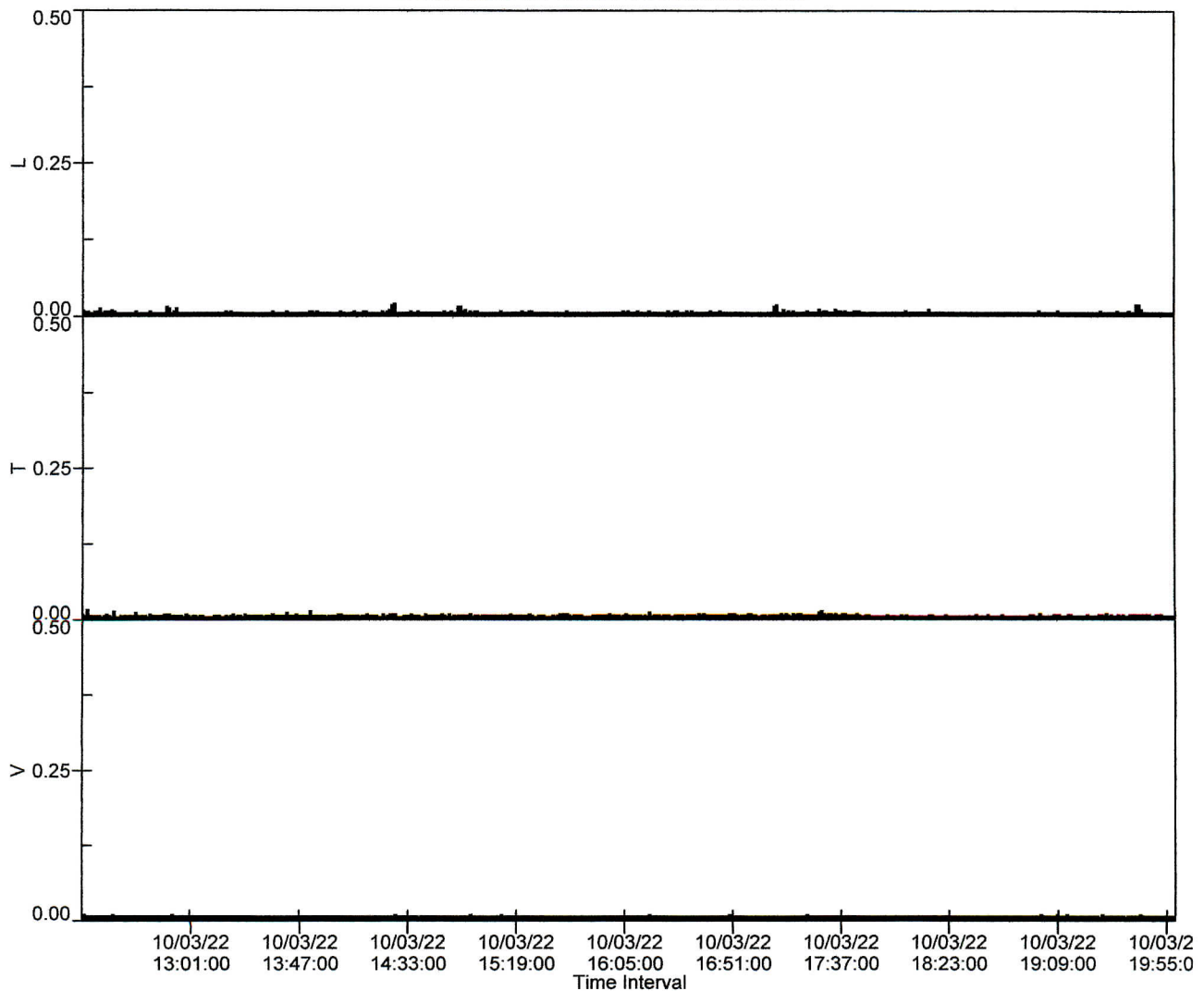
	L	T	V
PPV (in/s)	0.020	0.018	0.010
FREQ (Hz)	500.0	19.2	.3
Peak Air Pressure:	98 db		
Recording Time:	463 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 136

Record Max PPV: 0.020 in/s Record Max DB: 98 db



SN: 3734 v3.22
Date: 10/04/2022 **Time:** 06:01:00
Event: 137
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

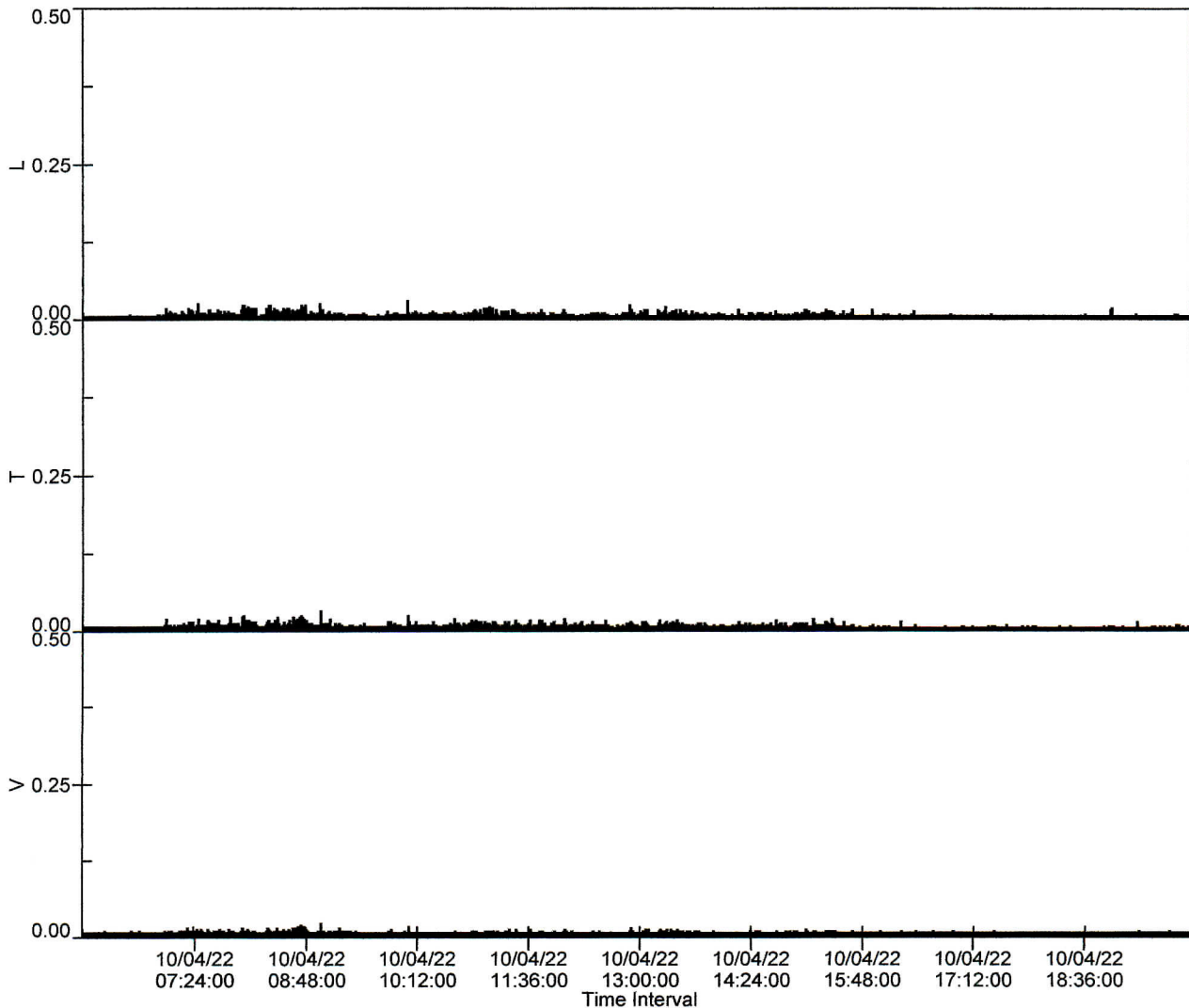
	L	T	V
PPV (in/s)	0.030	0.033	0.023
FREQ (Hz)	12.8	13.9	15.2
Peak Air Pressure:	100 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 137

Record Max PPV: 0.033 in/s Record Max DB: 100 db



SN: 3734 v3.22
Date: 10/05/2022 **Time:** 06:01:00
Event: 138
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

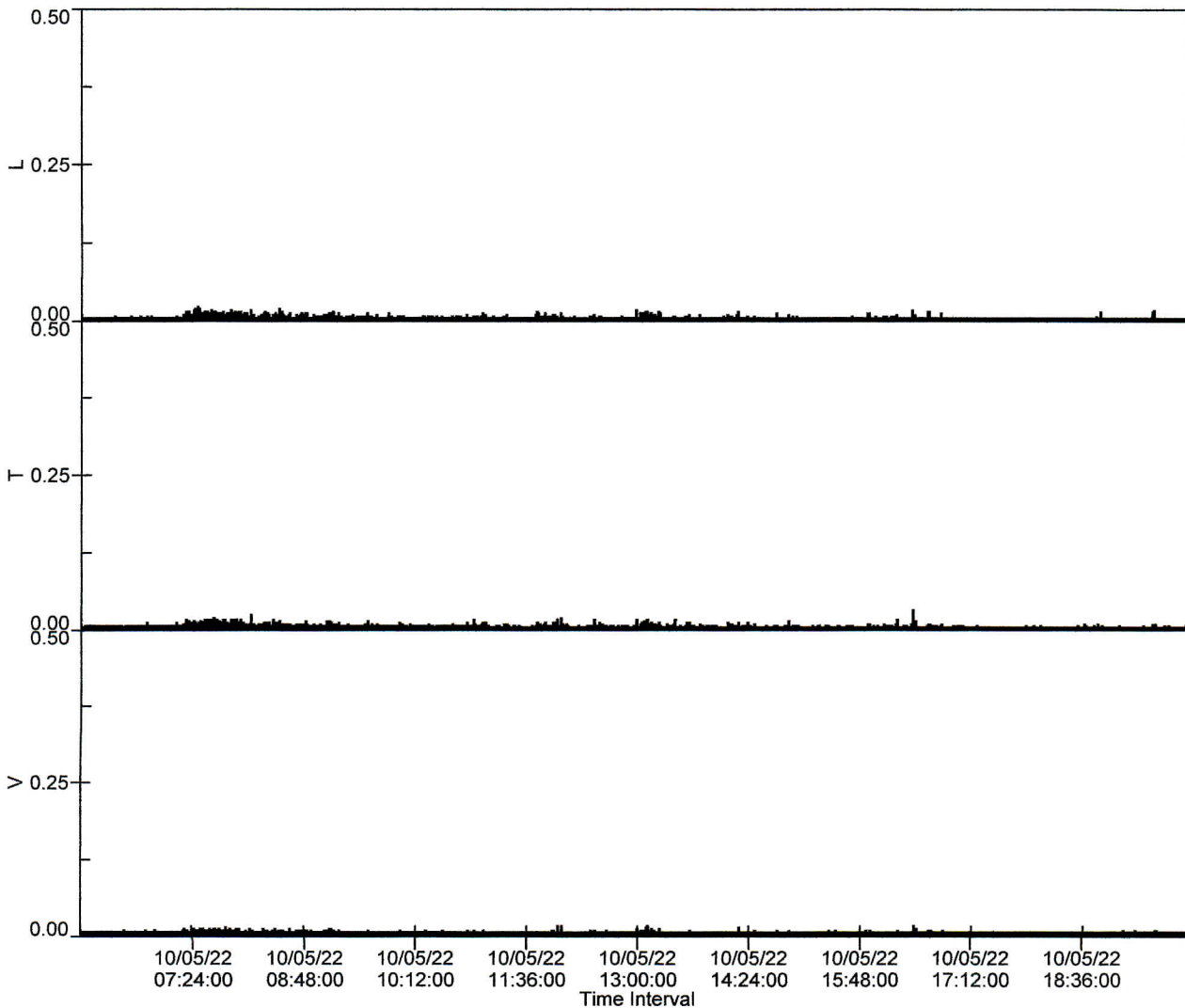
	L	T	V
PPV (in/s)	0.023	0.033	0.018
FREQ (Hz)	31.3	17.2	31.3
Peak Air Pressure:	98 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 138

Record Max PPV: 0.033 in/s Record Max DB: 98 db



SN: 3734 v3.22
Date: 10/06/2022 **Time:** 06:01:00
Event: 139
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.025	0.028	0.015
FREQ (Hz)	71.4	25.0	31.3
Peak Air Pressure:	100 db		

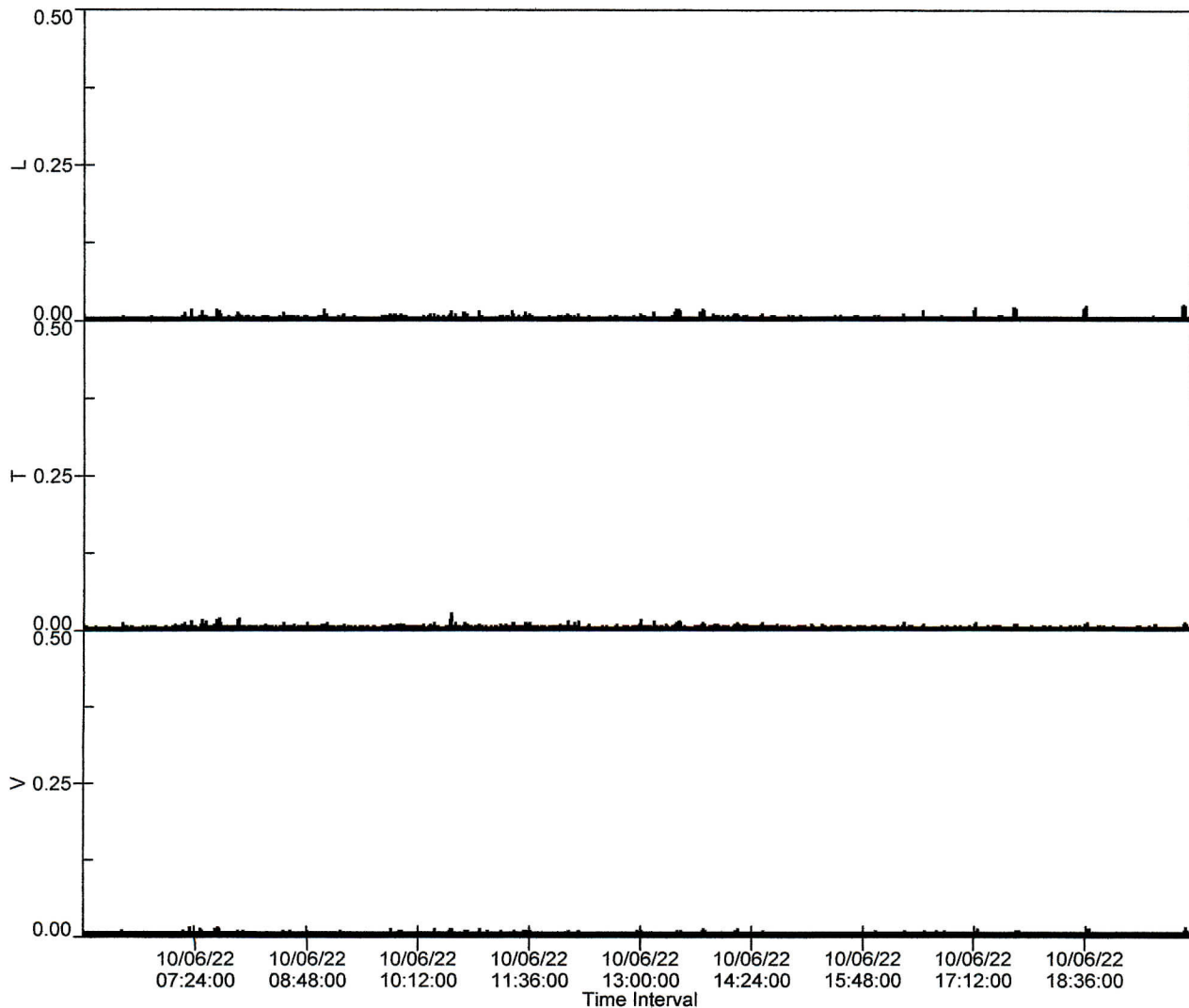
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
359 Northgate Drive
Warrendale, PA 15086 U.S.A.
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 139

Record Max PPV: 0.028 in/s Record Max DB: 100 db



SN: 3734 v3.22
Date: 10/07/2022 **Time:** 06:01:00
Event: 140
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

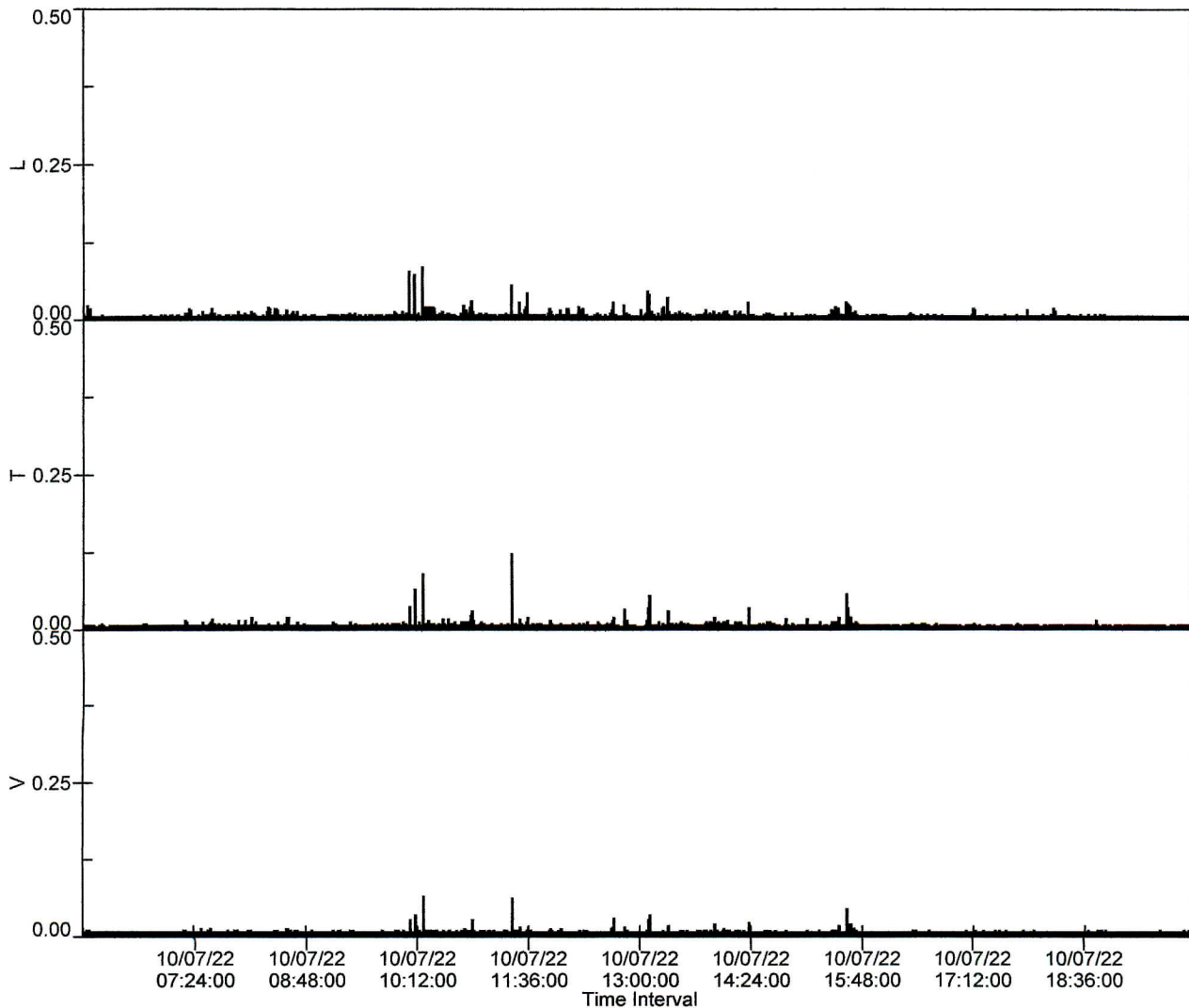
	L	T	V
PPV (in/s)	0.085	0.123	0.065
FREQ (Hz)	20.0	22.7	17.9
Peak Air Pressure:	90 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 140

Record Max PPV: 0.123 in/s Record Max DB: 90 db



SN: 3734 v3.22
Date: 10/08/2022 **Time:** 06:01:00
Event: 141
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

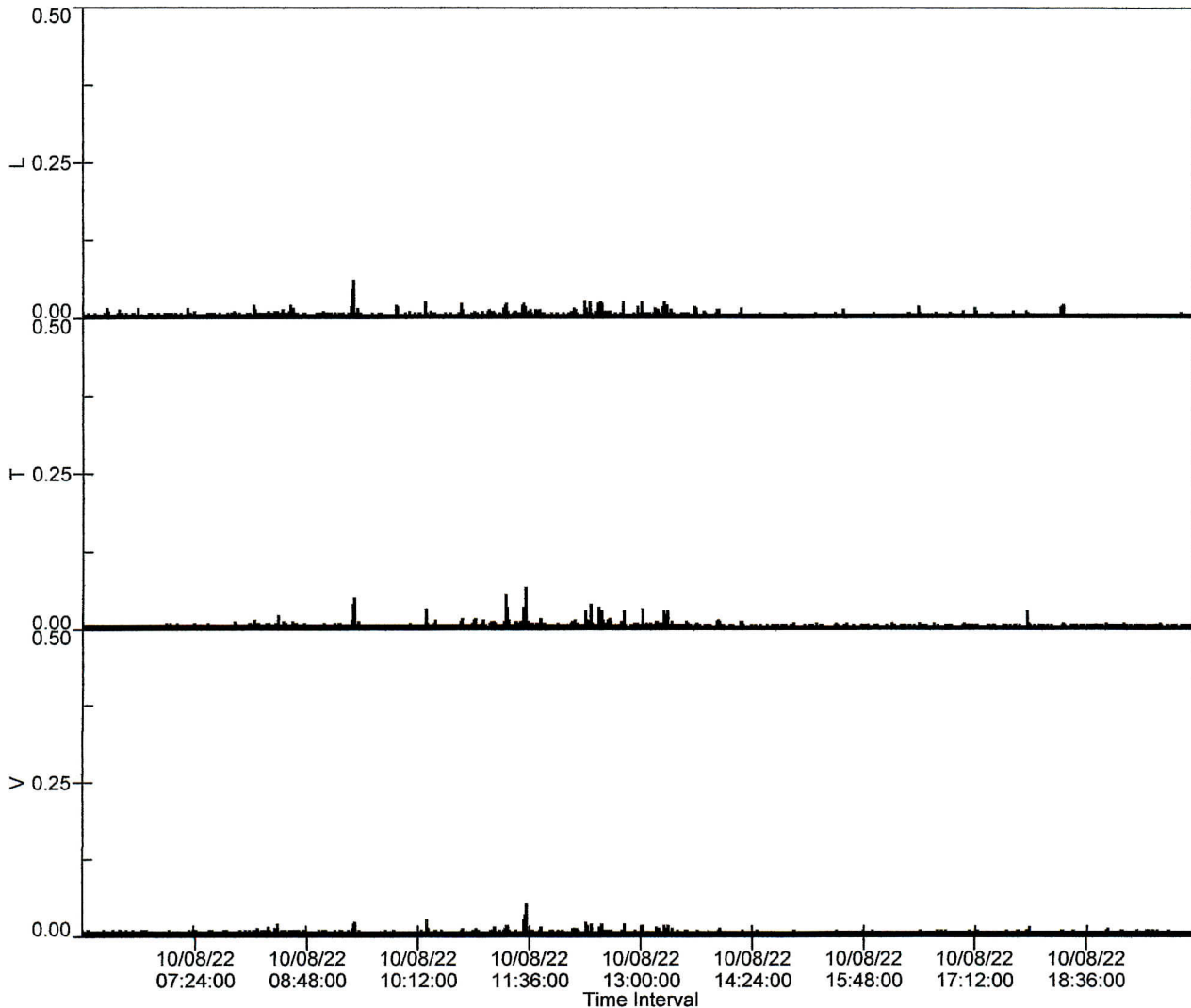
	L	T	V
PPV (in/s)	0.060	0.068	0.053
FREQ (Hz)	15.2	12.5	12.5
Peak Air Pressure:	90 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 141

Record Max PPV: 0.068 in/s Record Max DB: 90 db



SN: 3734 v3.22
Date: 10/09/2022 **Time:** 06:01:00
Event: 142
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

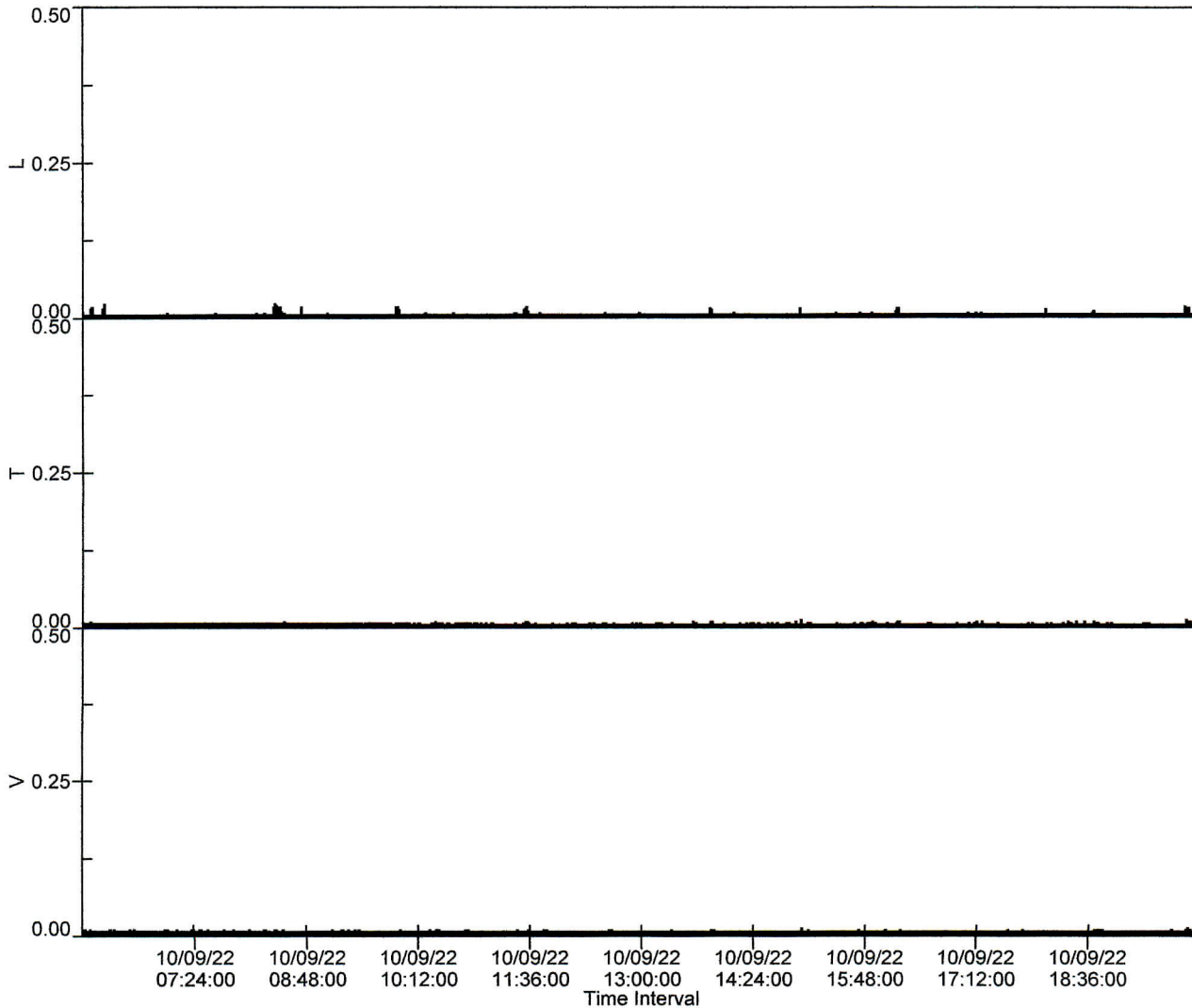
	L	T	V
PPV (in/s)	0.023	0.013	0.013
FREQ (Hz)	250.0	250.0	17.9
Peak Air Pressure:	95 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 142

Record Max PPV: 0.023 in/s Record Max DB: 95 db



SN: 3734 v3.22
Date: 10/10/2022 **Time:** 06:01:00
Event: 143
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.043	0.070	0.055
FREQ (Hz)	17.9	21.7	16.1
Peak Air Pressure:	87 db		

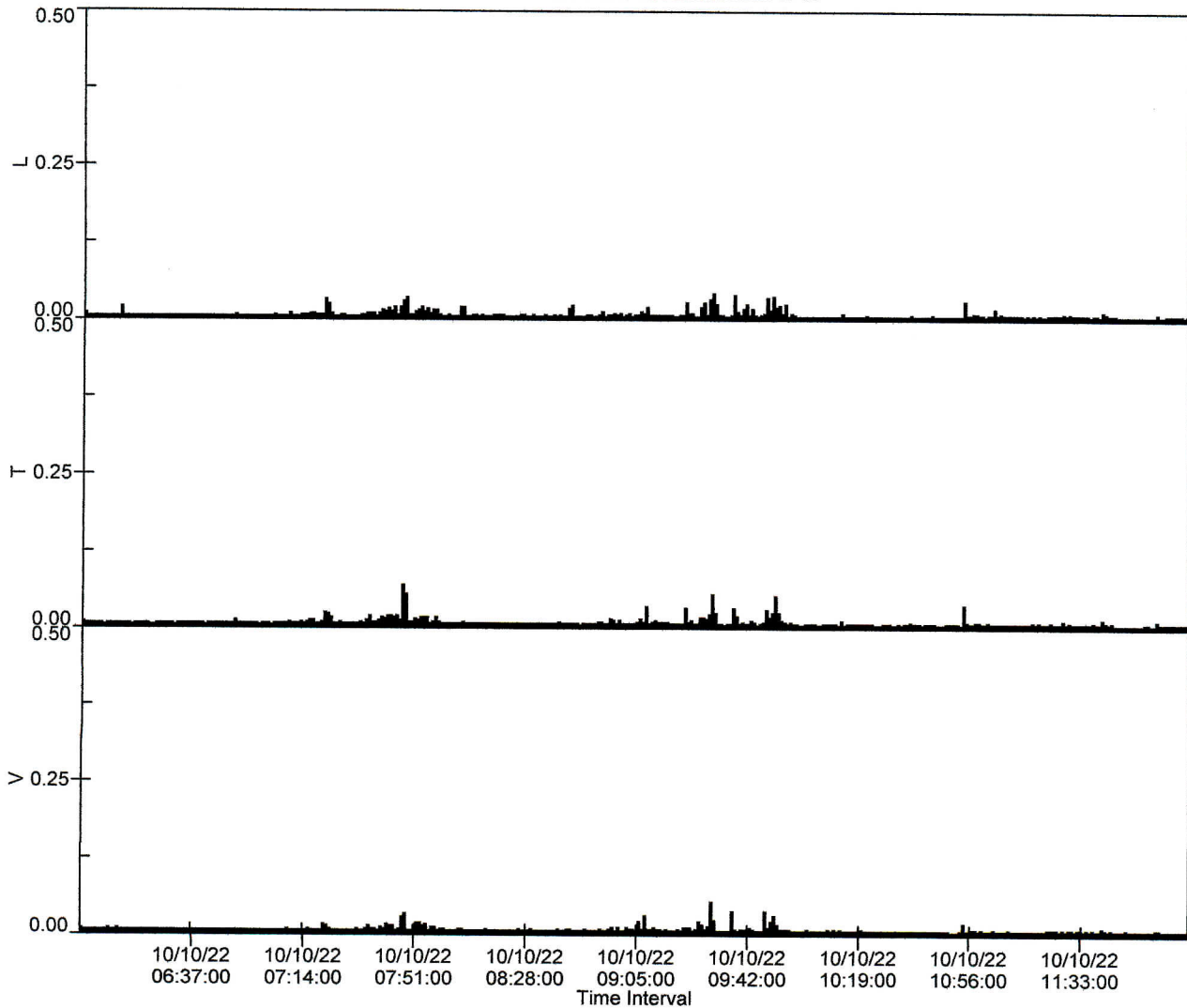
Recording Time: 368 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 04/12/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3734 Event: 143

Record Max PPV: 0.070 in/s Record Max DB: 87 db



SN: 3733 v3.22
Date: 09/26/2022 **Time:** 12:31:00
Event: 128
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.030	0.023	0.020
FREQ (Hz)	13.9	17.2	15.6
Peak Air Pressure:	84 db		

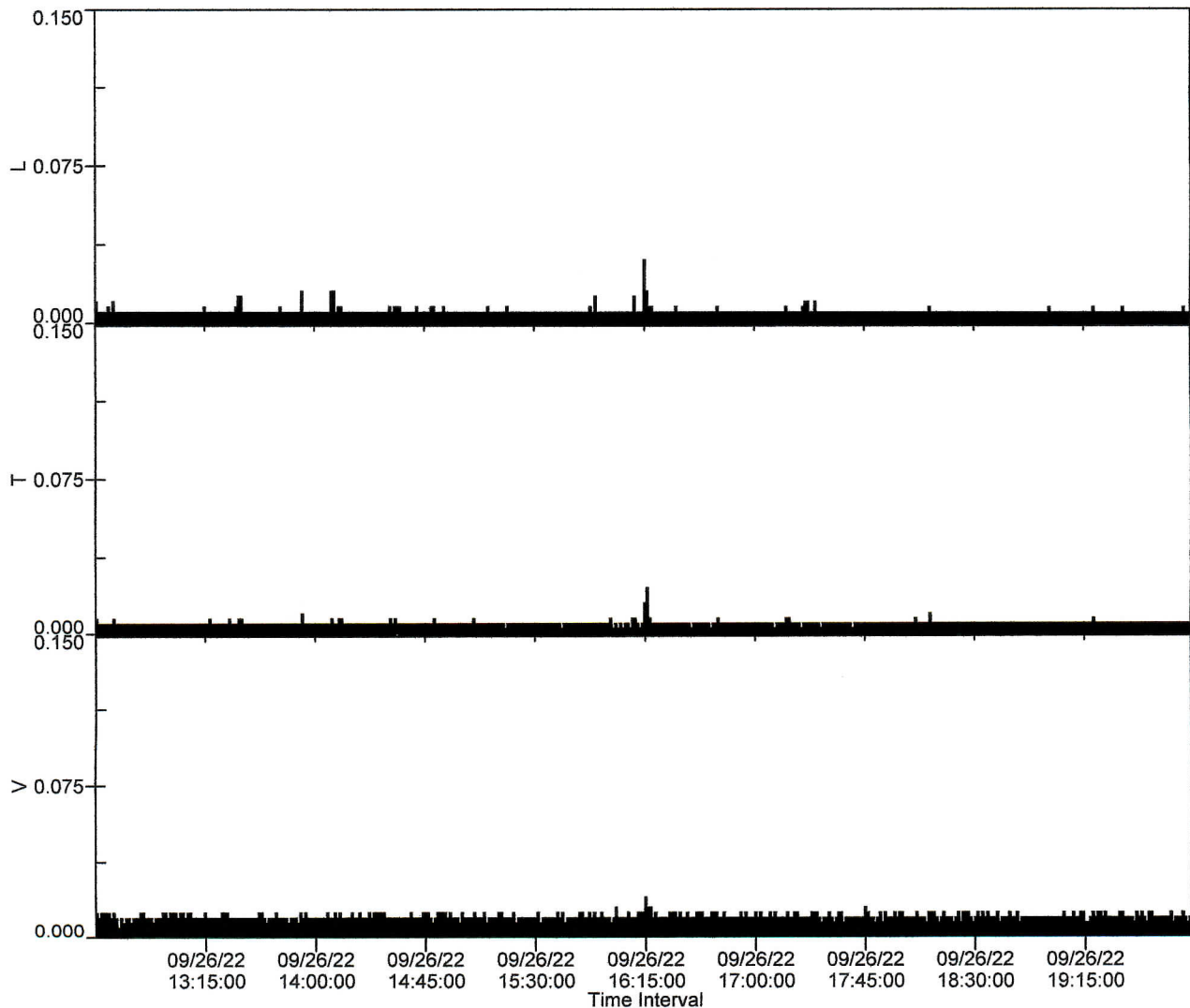
Recording Time: 448 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 12/28/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 128

Record Max PPV: 0.030 in/s Record Max DB: 84 db



SN: 3733 v3.22
Date: 10/04/2022 **Time:** 06:01:00
Event: 137
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

**Continuous Monitor Recording
Summary Data**

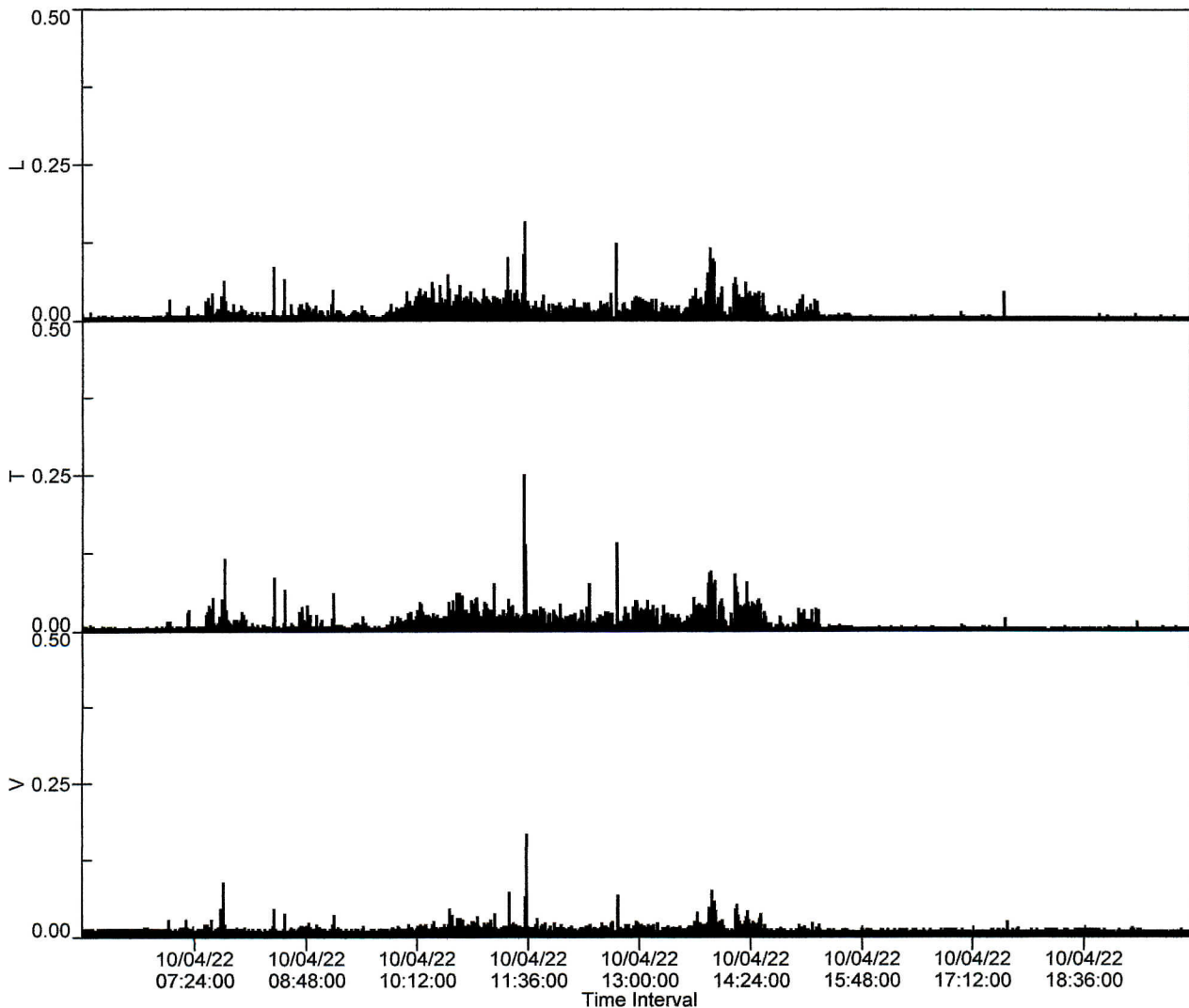
	L	T	V
PPV (in/s)	0.158	0.250	0.168
FREQ (Hz)	45.5	15.6	31.3
Peak Air Pressure:	102 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 12/28/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 137

Record Max PPV: 0.250 in/s Record Max DB: 102 db



SN: 3733 v3.22
Date: 10/05/2022 **Time:** 06:01:00
Event: 138
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.040	0.055	0.028
FREQ (Hz)	20.8	12.8	20.8
Peak Air Pressure:	84 db		

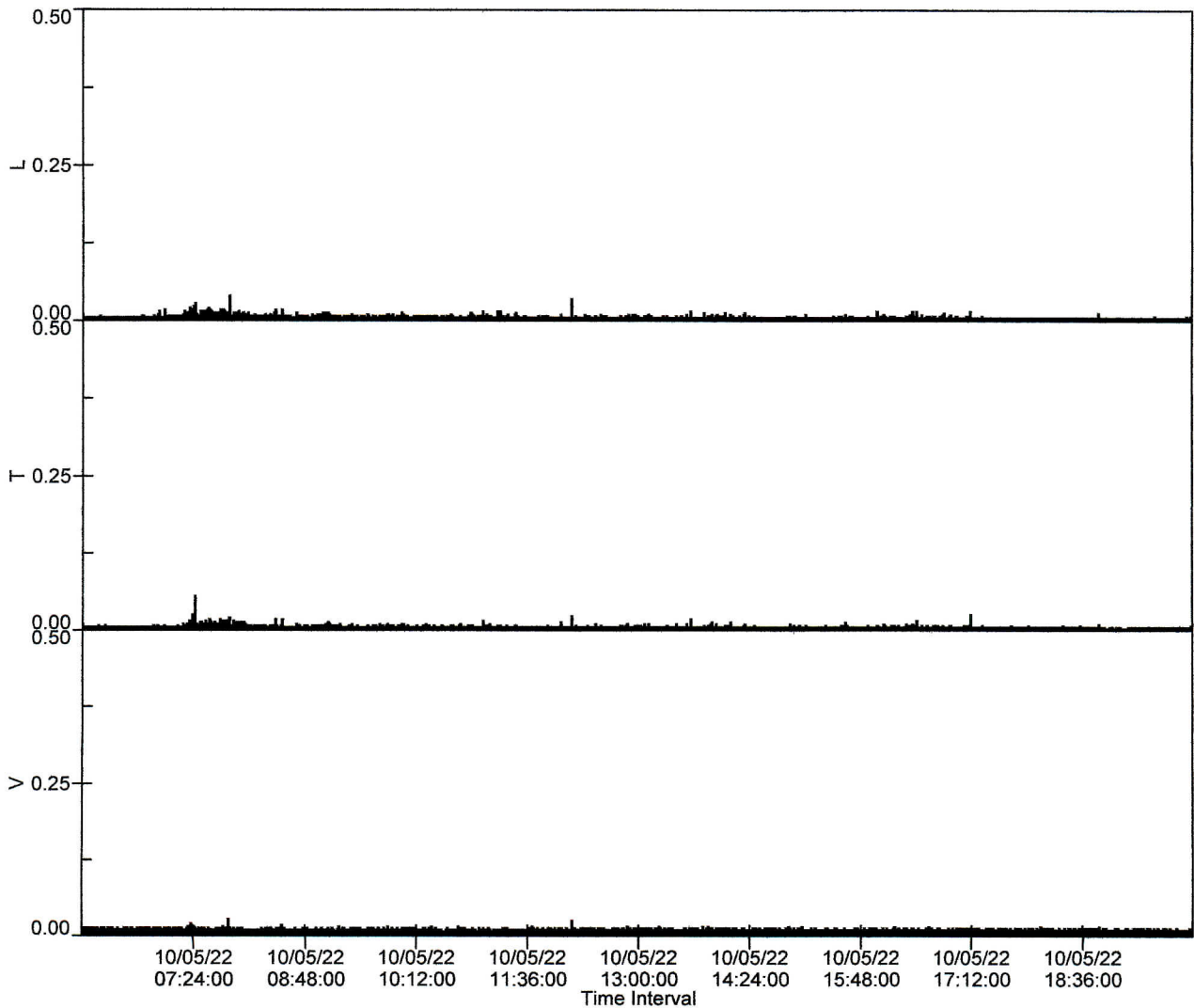
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 12/28/2021
By: GeoSonics Inc.
359 Northgate Drive
Warrendale, PA 15086 U.S.A.
TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 138

Record Max PPV: 0.055 in/s Record Max DB: 84 db



SN: 3733 v3.22
Date: 10/07/2022 **Time:** 06:01:00
Event: 140
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

**Continuous Monitor Recording
Summary Data**

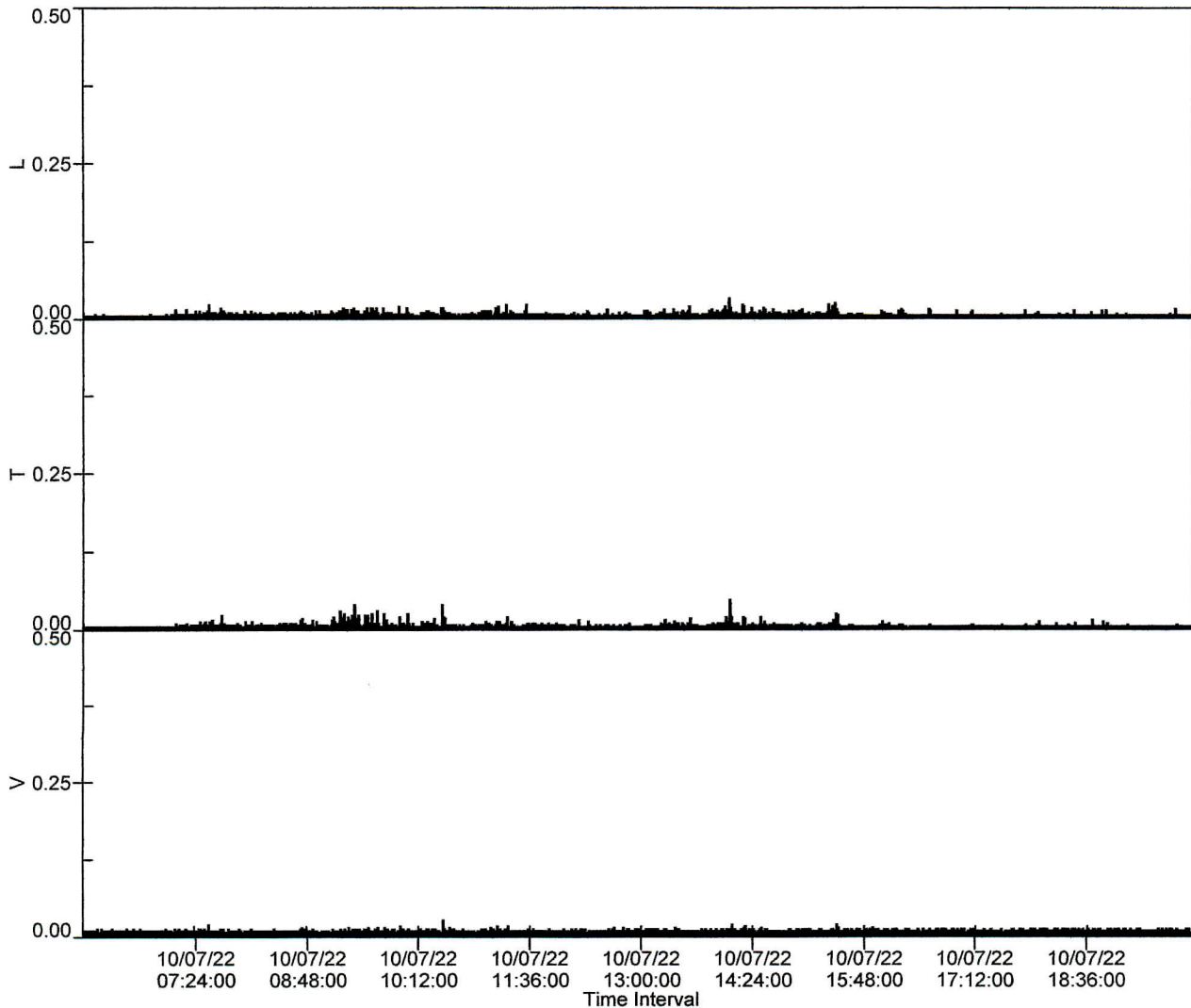
	L	T	V
PPV (in/s)	0.033	0.048	0.028
FREQ (Hz)	21.7	20.0	31.3
Peak Air Pressure:	90 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 12/28/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 140

Record Max PPV: 0.048 in/s Record Max DB: 90 db



SN: 3733 v3.22
Date: 10/08/2022 **Time:** 06:01:00
Event: 141
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

**Continuous Monitor Recording
Summary Data**

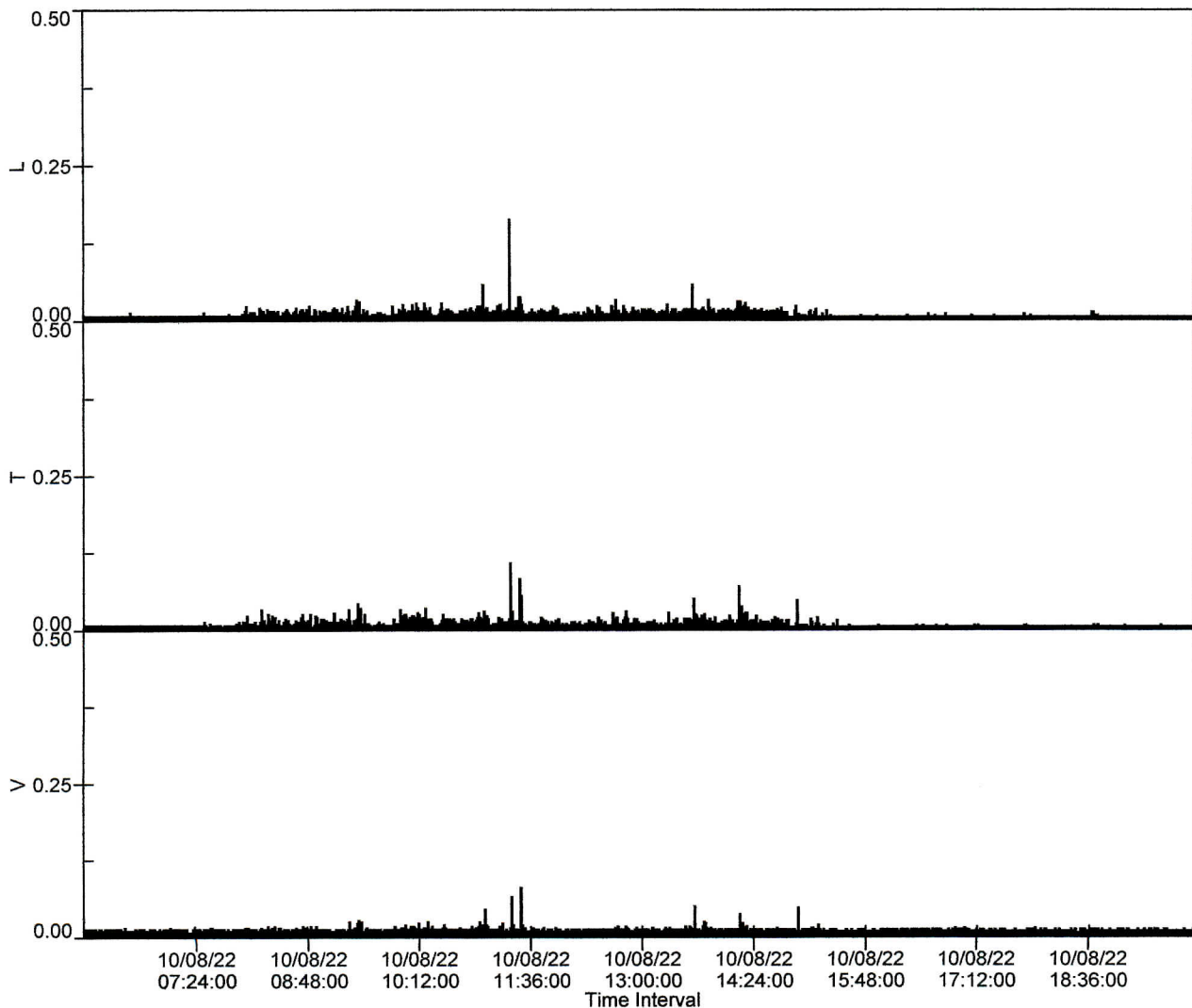
	L	T	V
PPV (in/s)	0.163	0.108	0.080
FREQ (Hz)	33.3	35.7	33.3
Peak Air Pressure:	87 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 12/28/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 141

Record Max PPV: 0.163 in/s Record Max DB: 87 db



SN: 3733 v3.22
Date: 10/09/2022 **Time:** 06:01:00
Event: 142
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

**Continuous Monitor Recording
Summary Data**

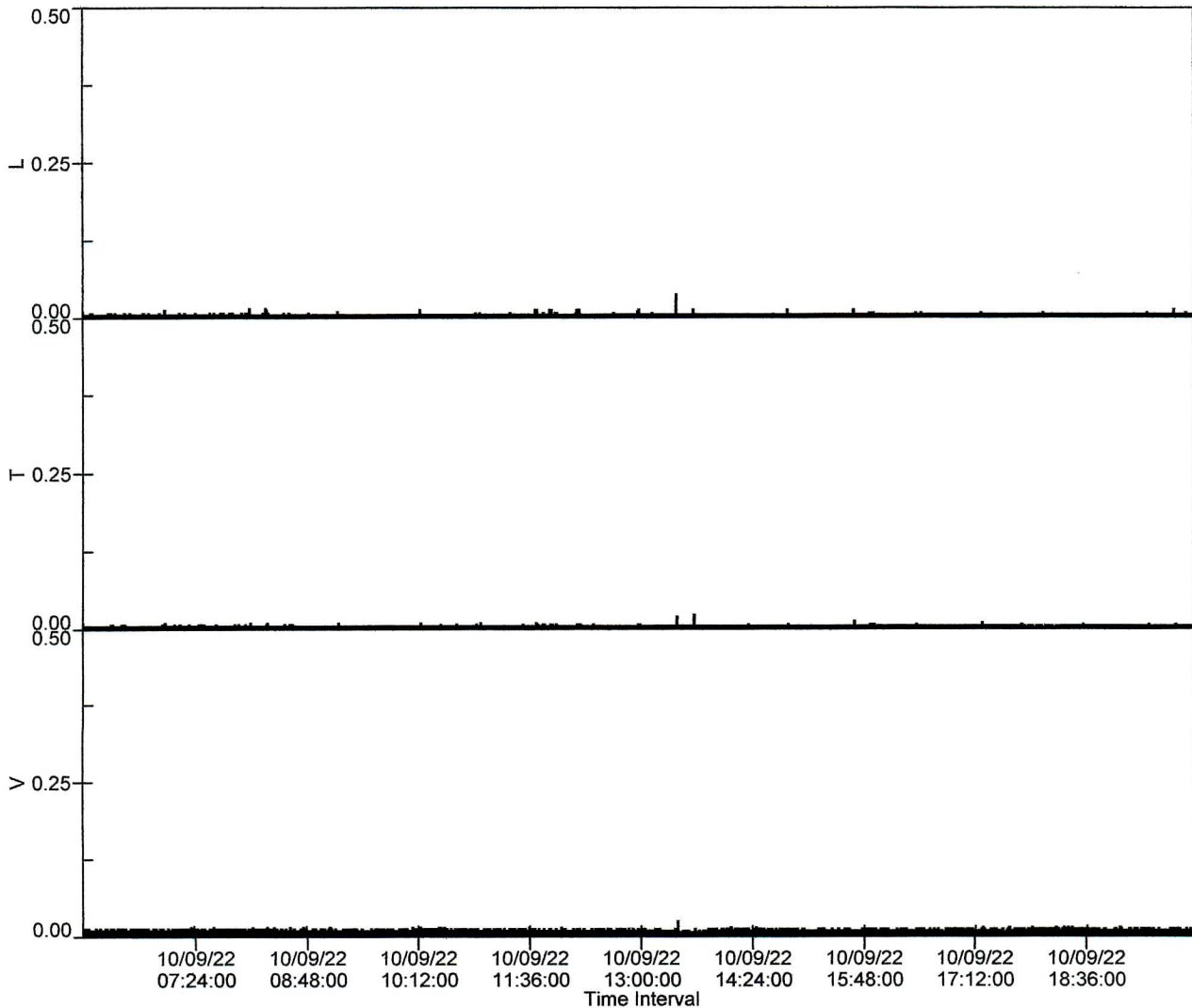
	L	T	V
PPV (in/s)	0.038	0.023	0.025
FREQ (Hz)	250.0	17.2	166.7
Peak Air Pressure:	101 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 12/28/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 142

Record Max PPV: 0.038 in/s Record Max DB: 101 db



SN: 3733 v3.22
Date: 10/10/2022 **Time:** 06:01:00
Event: 143
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.160	0.123	0.063
FREQ (Hz)	20.8	18.5	17.9
Peak Air Pressure:	84 db		

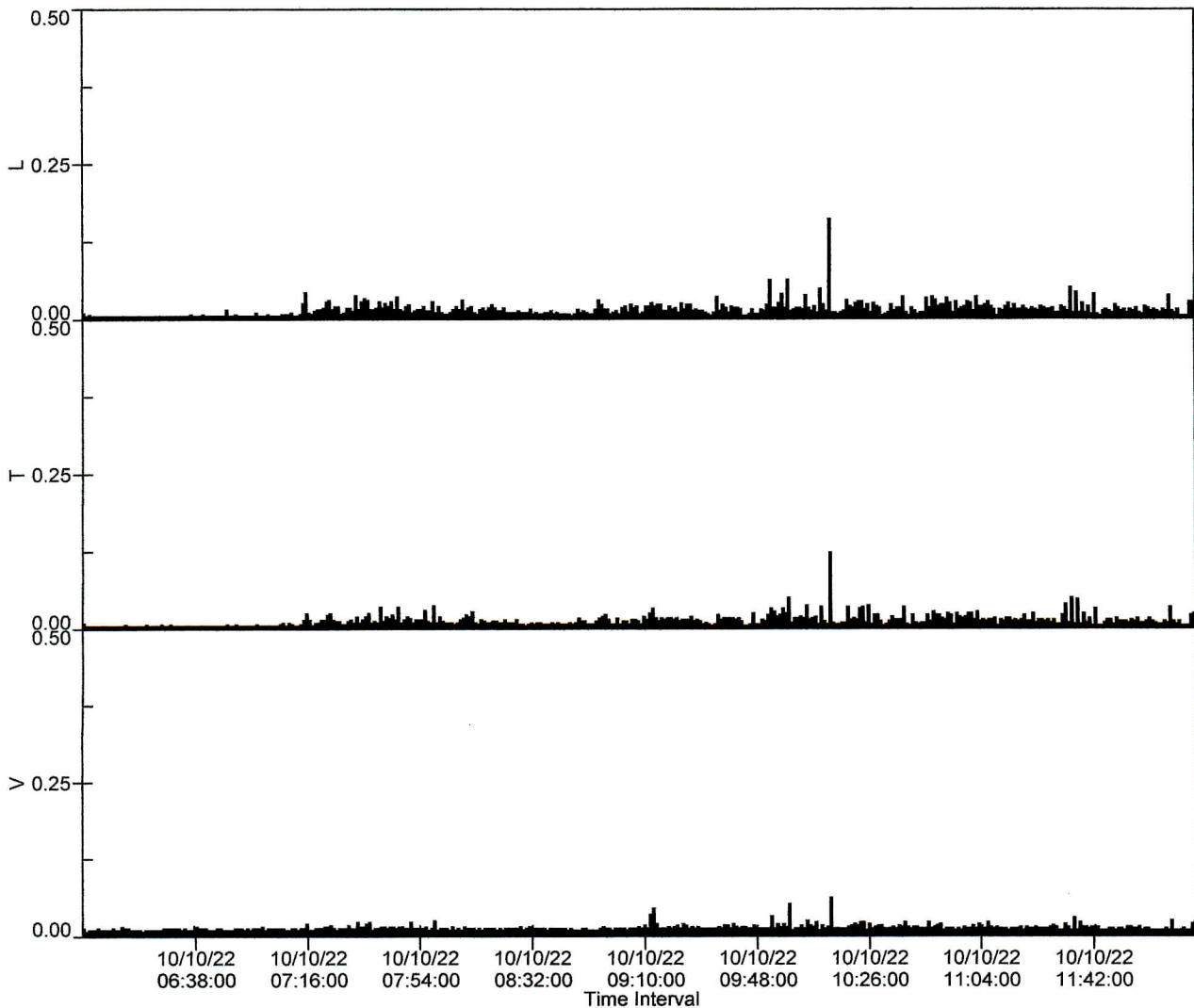
Recording Time: 376 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 12/28/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3733 Event: 143

Record Max PPV: 0.160 in/s Record Max DB: 84 db



SN: 3647 v2.75
Date: 09/26/2022 **Time:** 12:37:00
Event: 128
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

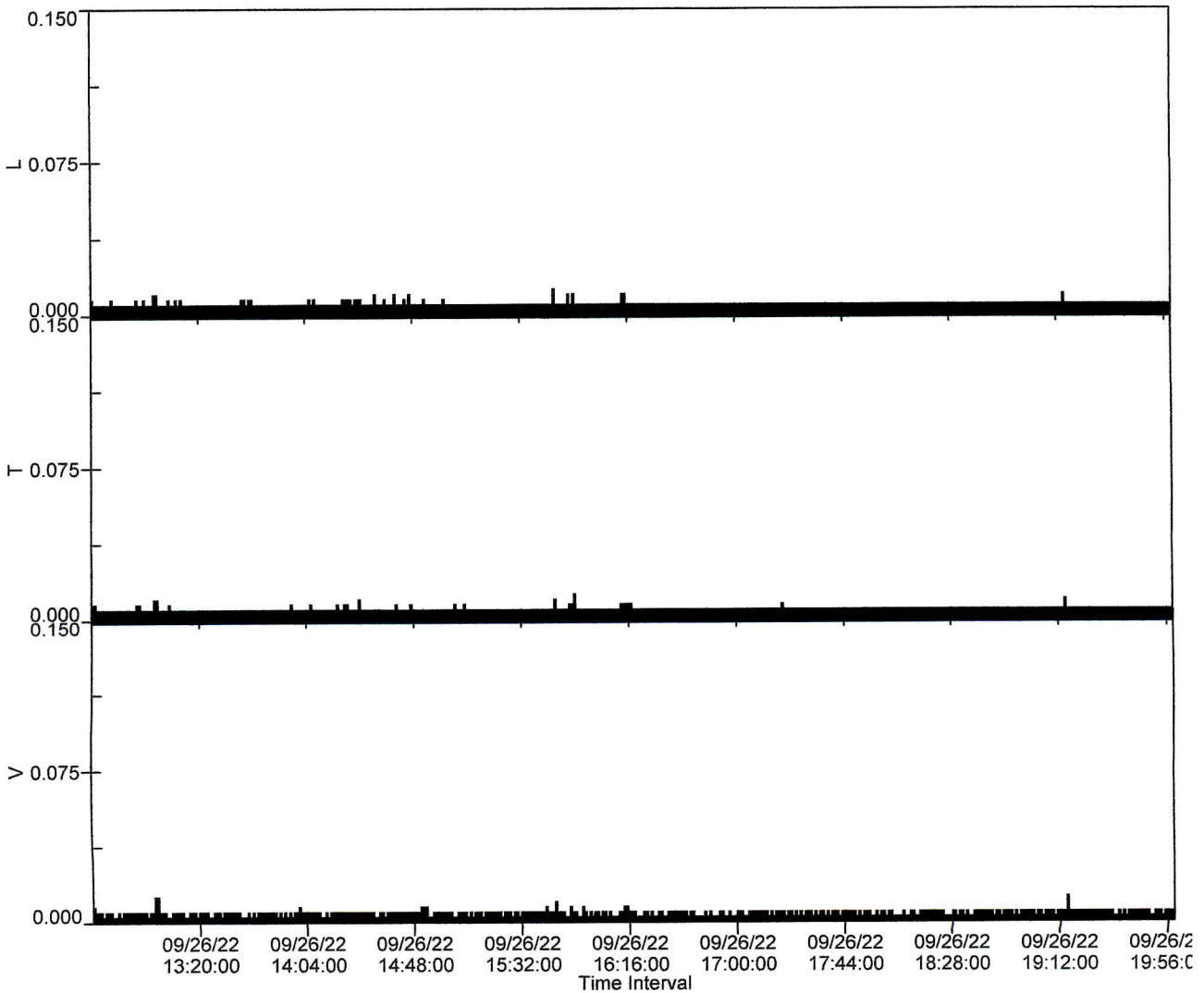
	L	T	V
PPV (in/s)	0.013	0.013	0.013
FREQ (Hz)	500.0	8.6	250.0
Peak Air Pressure:	94 db		
Recording Time:	442 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 128

Record Max PPV: 0.013 in/s Record Max DB: 94 db



SN: 3647 v2.75
Date: 09/27/2022 **Time:** 06:01:00
Event: 129
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.035	0.028	0.025
FREQ (Hz)	11.1	11.1	16.1
Peak Air Pressure:	100 db		

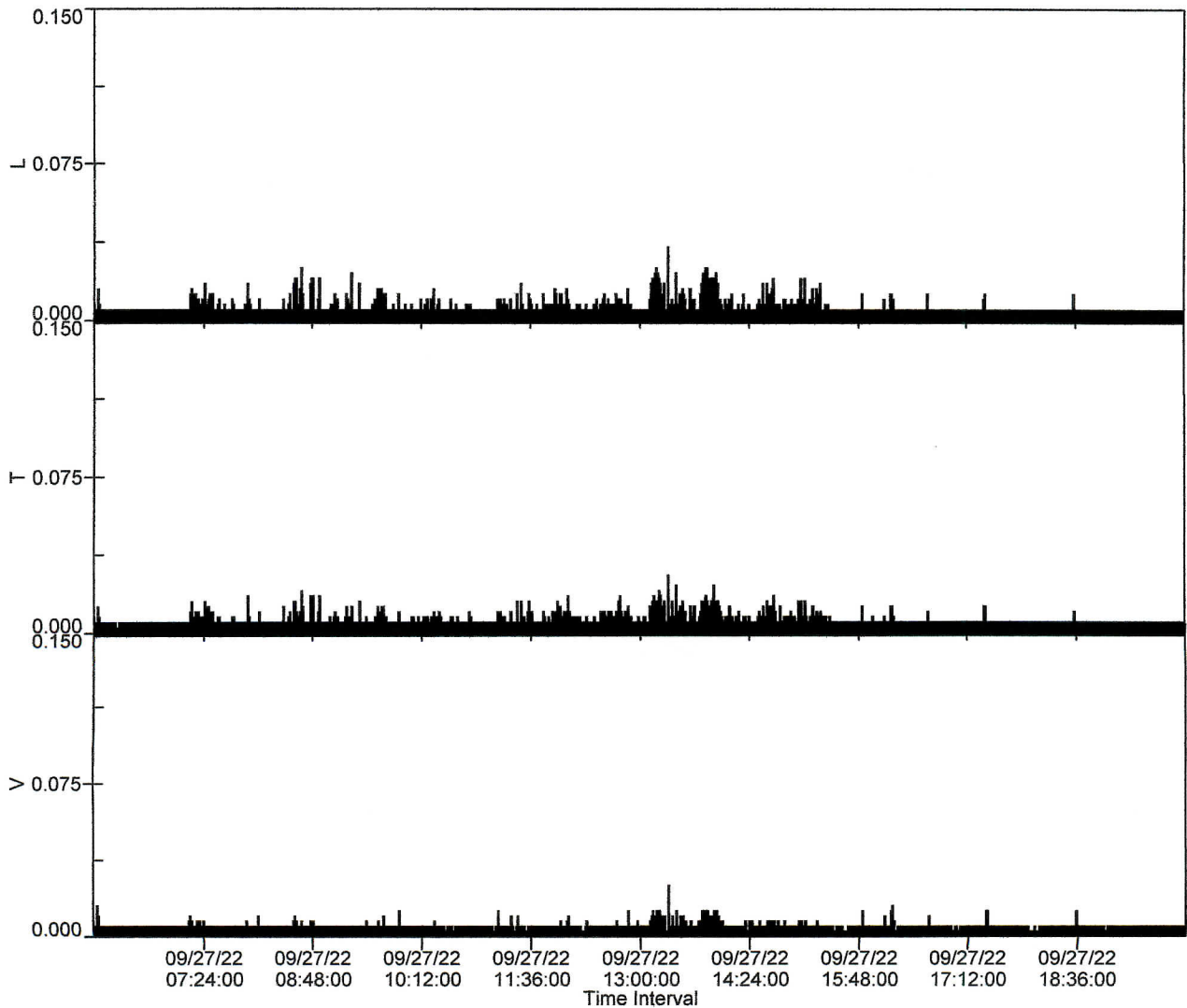
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 129

Record Max PPV: 0.035 in/s Record Max DB: 100 db



SN: 3647 v2.75
Date: 09/28/2022 **Time:** 06:01:00
Event: 130
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

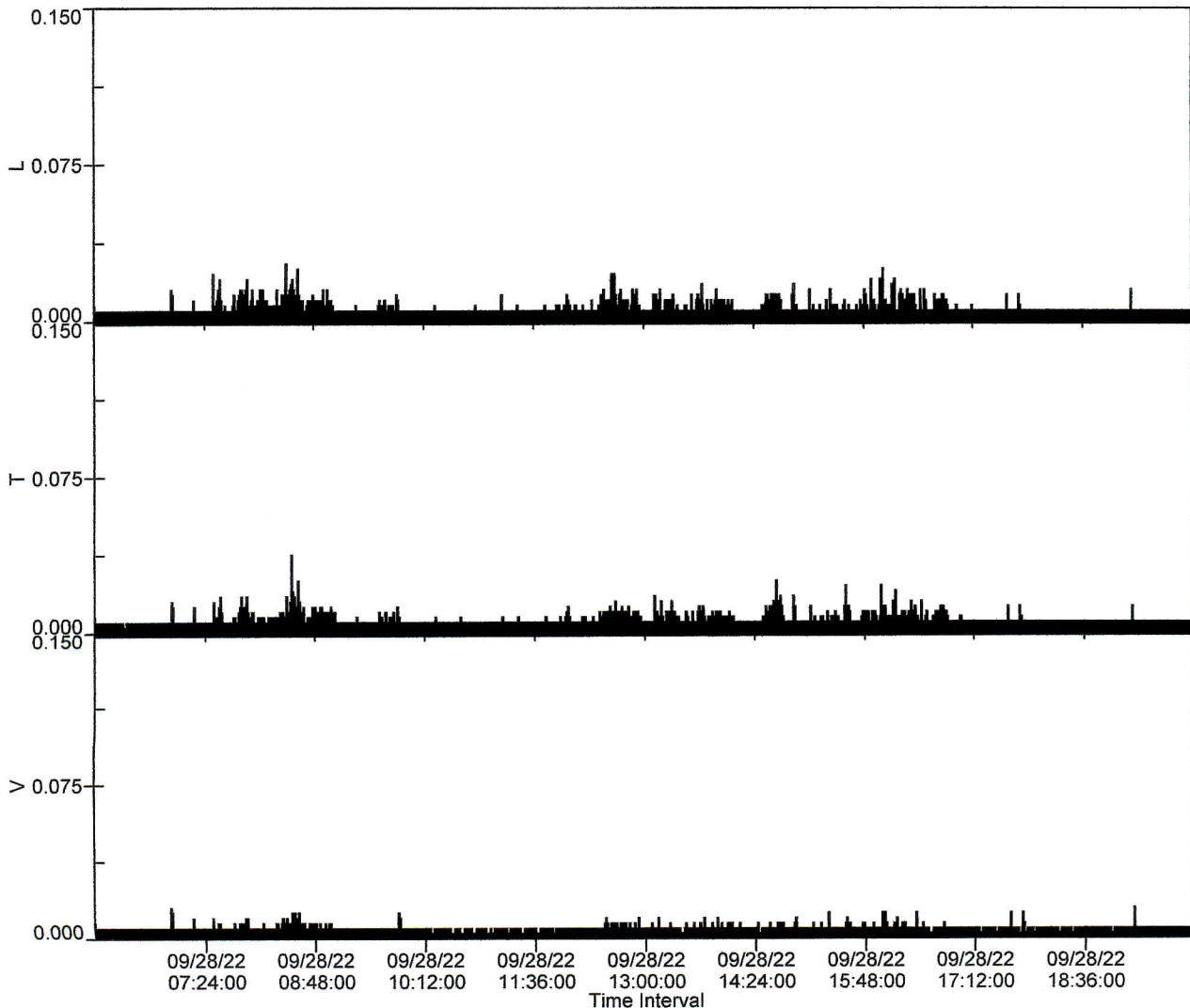
	L	T	V
PPV (in/s)	0.028	0.038	0.015
FREQ (Hz)	14.7	9.4	166.7
Peak Air Pressure:	101 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 130

Record Max PPV: 0.038 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 09/29/2022 **Time:** 06:01:00
Event: 131
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.040	0.030	0.020
FREQ (Hz)	9.8	9.6	13.5
Peak Air Pressure:	102 db		

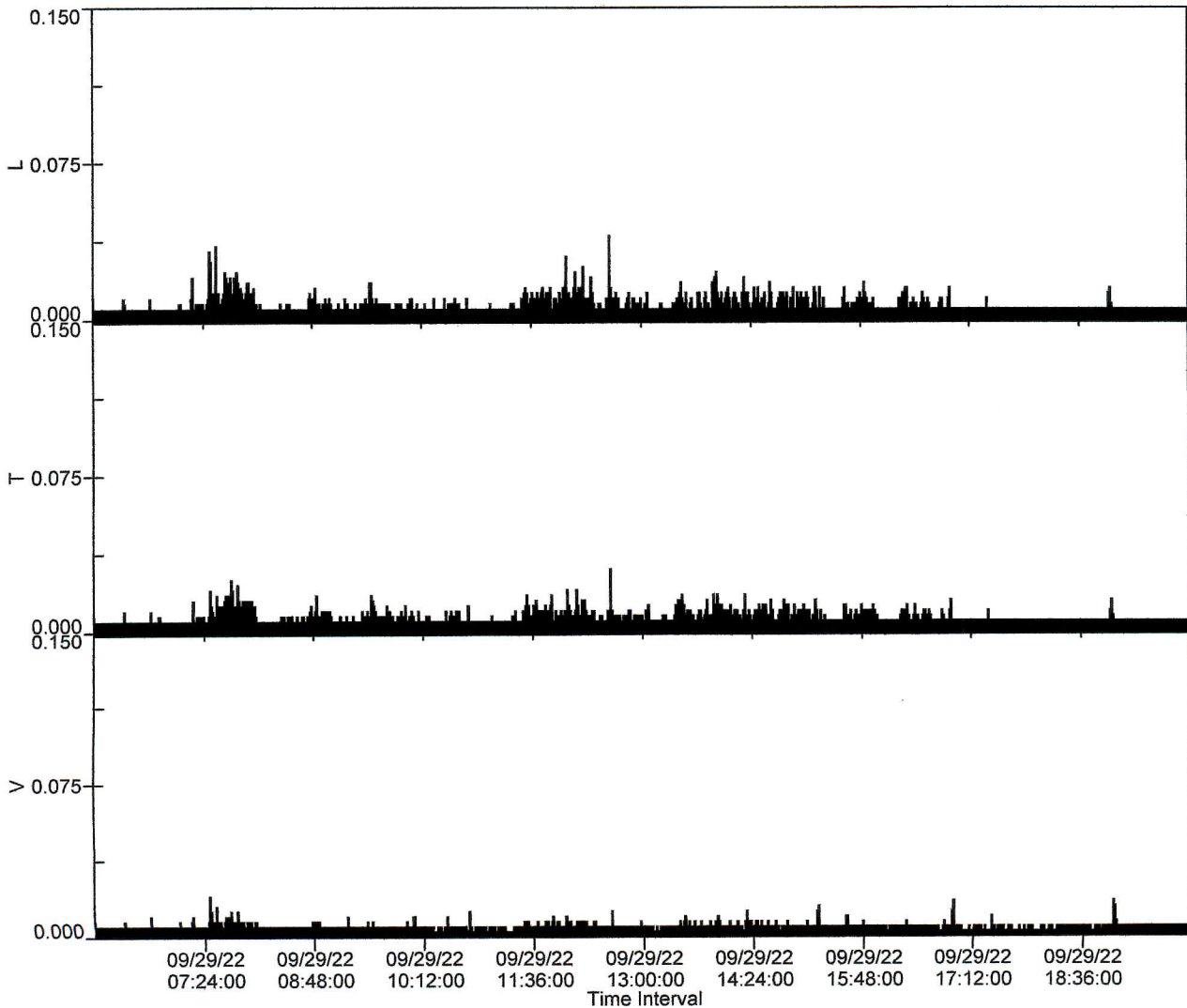
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 131

Record Max PPV: 0.040 in/s Record Max DB: 102 db



SN: 3647 v2.75
Date: 09/30/2022 **Time:** 06:01:00
Event: 132
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.045	0.065	0.025
FREQ (Hz)	9.4	10.2	45.5
Peak Air Pressure: 101 db			

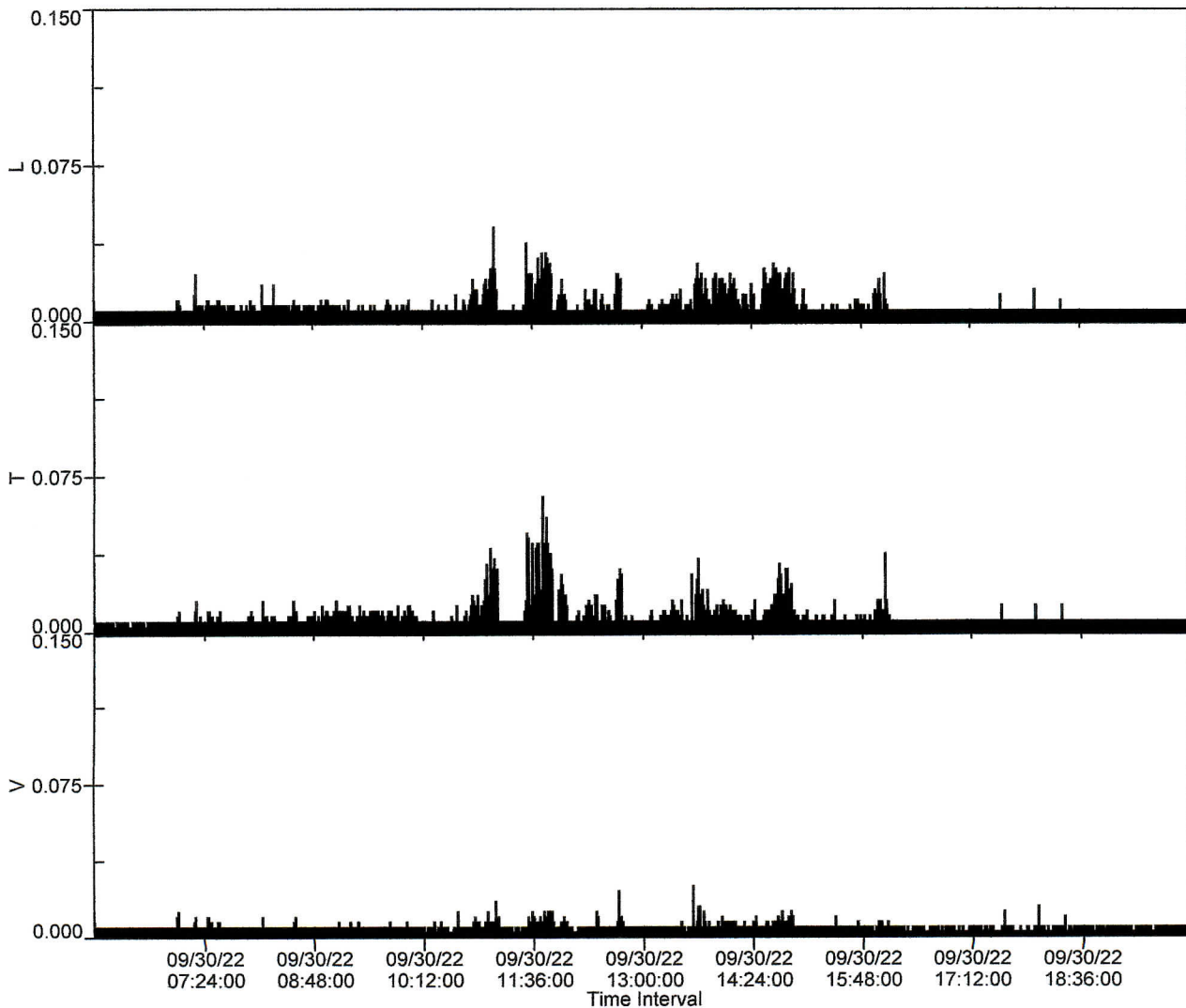
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 132

Record Max PPV: 0.065 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/01/2022 **Time:** 06:01:00
Event: 133
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

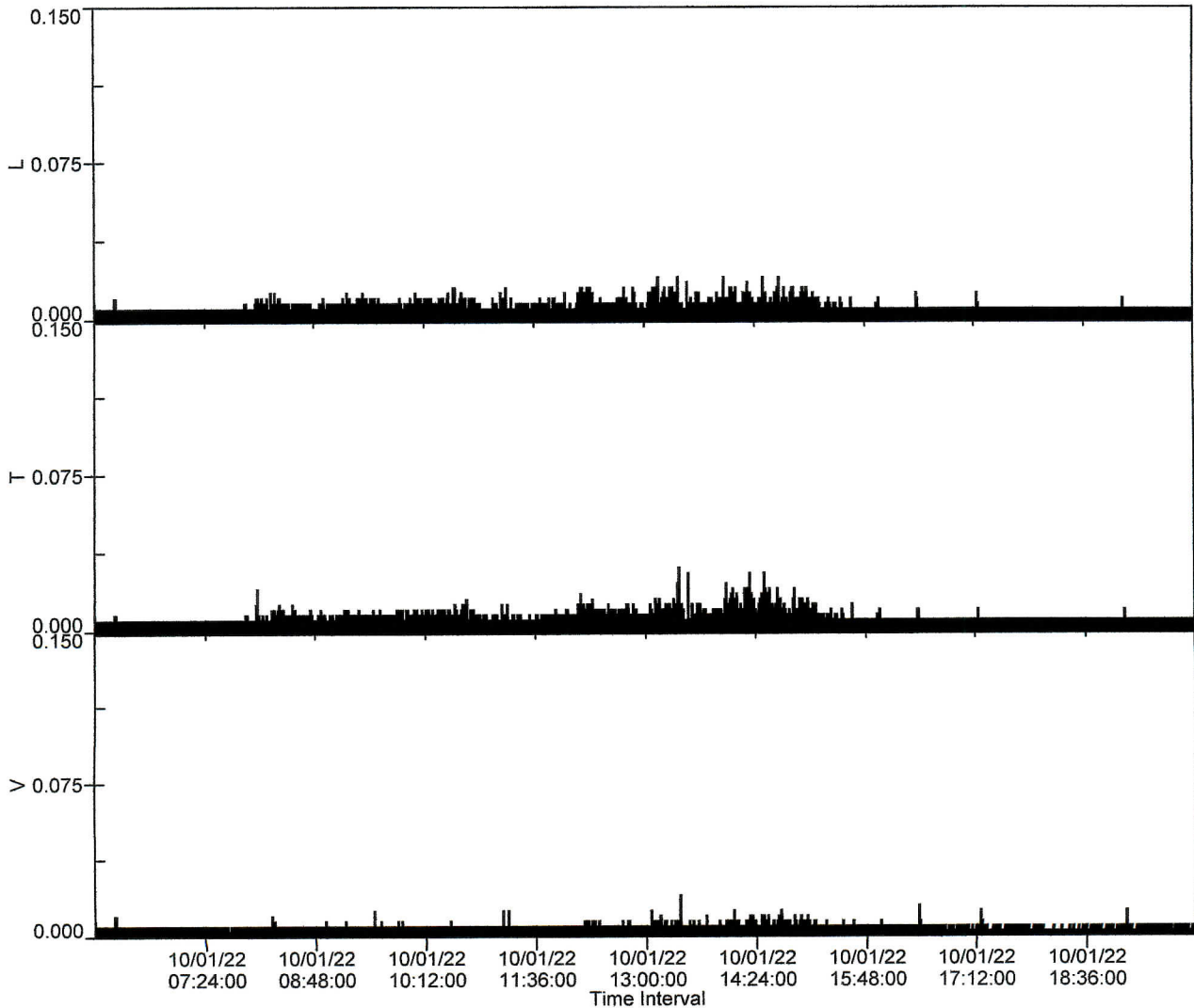
	L	T	V
PPV (in/s)	0.020	0.030	0.020
FREQ (Hz)	13.5	9.8	11.4
Peak Air Pressure:	102 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 133

Record Max PPV: 0.030 in/s Record Max DB: 102 db



SN: 3647 v2.75
Date: 10/02/2022 **Time:** 06:01:00
Event: 134
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

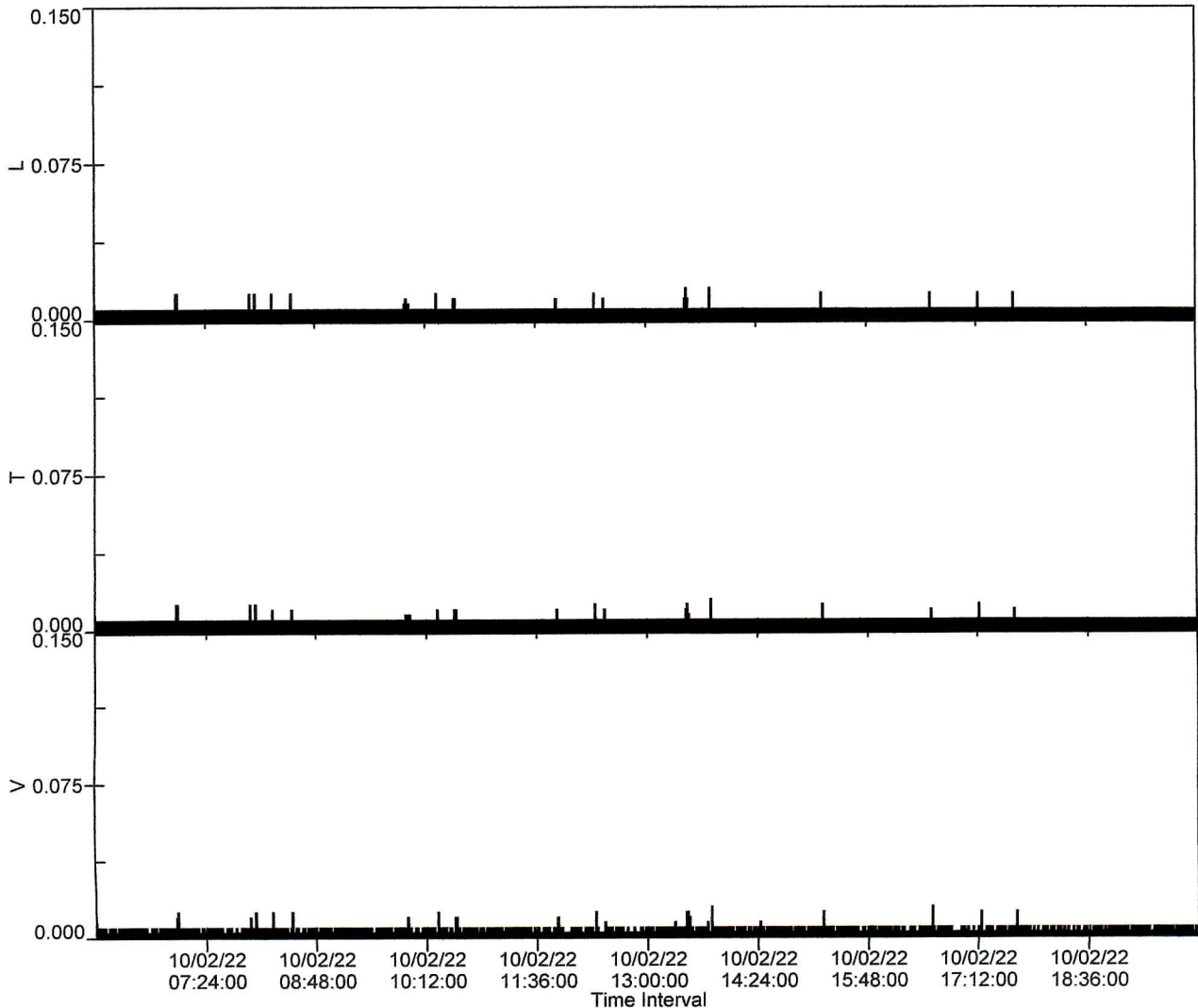
	L	T	V
PPV (in/s)	0.015	0.015	0.015
FREQ (Hz)	250.0	250.0	250.0
Peak Air Pressure:	100 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 134

Record Max PPV: 0.015 in/s Record Max DB: 100 db



SN: 3647 v2.75
Date: 10/03/2022 **Time:** 12:33:00
Event: 136
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.030	0.033	0.030
FREQ (Hz)	13.5	11.1	11.6
Peak Air Pressure:	102 db		

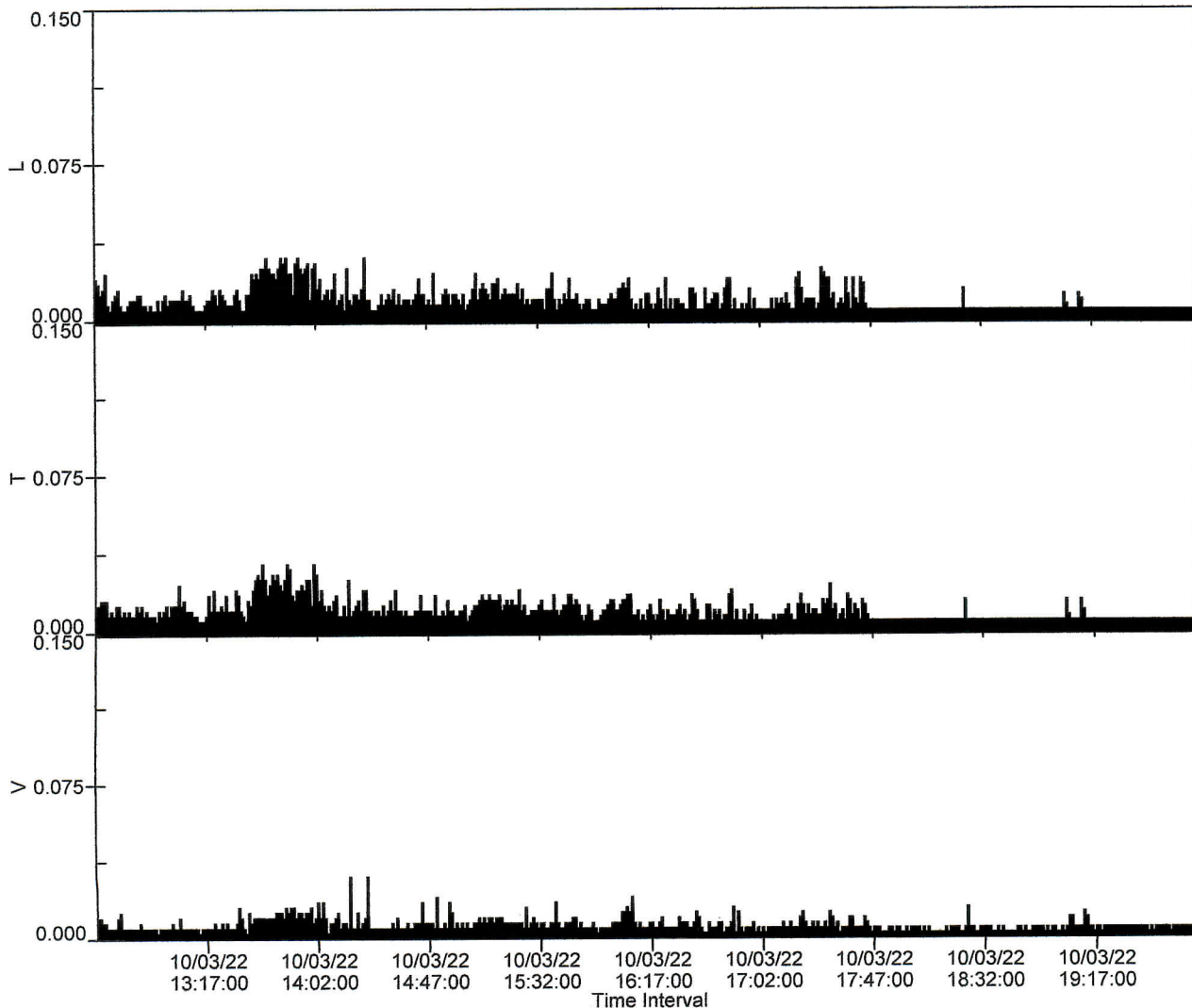
Recording Time: 446 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 136

Record Max PPV: 0.033 in/s Record Max DB: 102 db



SN: 3647 v2.75
Date: 10/04/2022 **Time:** 06:01:00
Event: 137
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.048	0.050	0.023
FREQ (Hz)	12.2	13.5	17.2
Peak Air Pressure: 104 db			

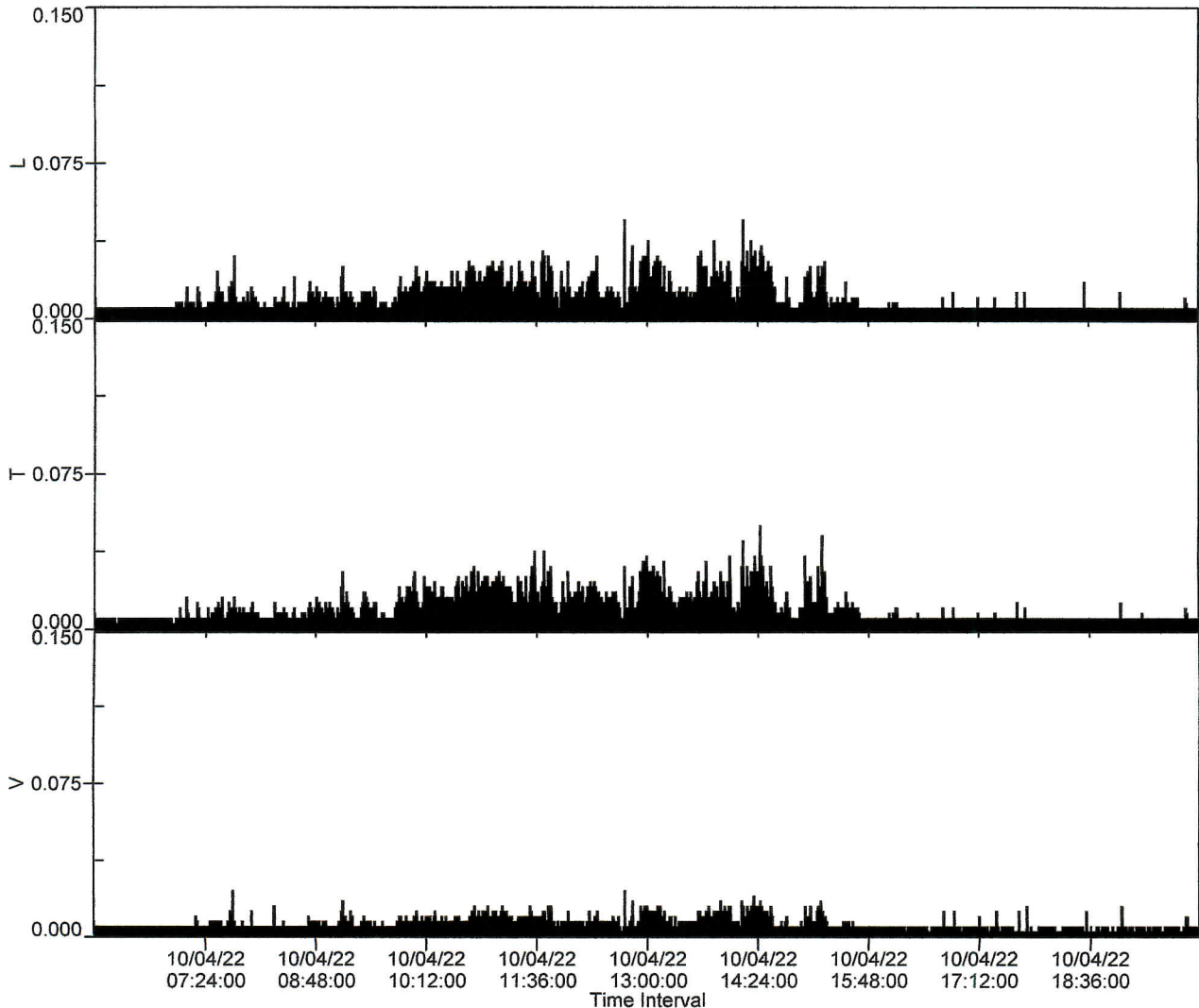
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 137

Record Max PPV: 0.050 in/s Record Max DB: 104 db



SN: 3647 v2.75
Date: 10/05/2022 **Time:** 06:01:00
Event: 138
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.020	0.043	0.018
FREQ (Hz)	21.7	9.6	250.0
Peak Air Pressure: 102 db			

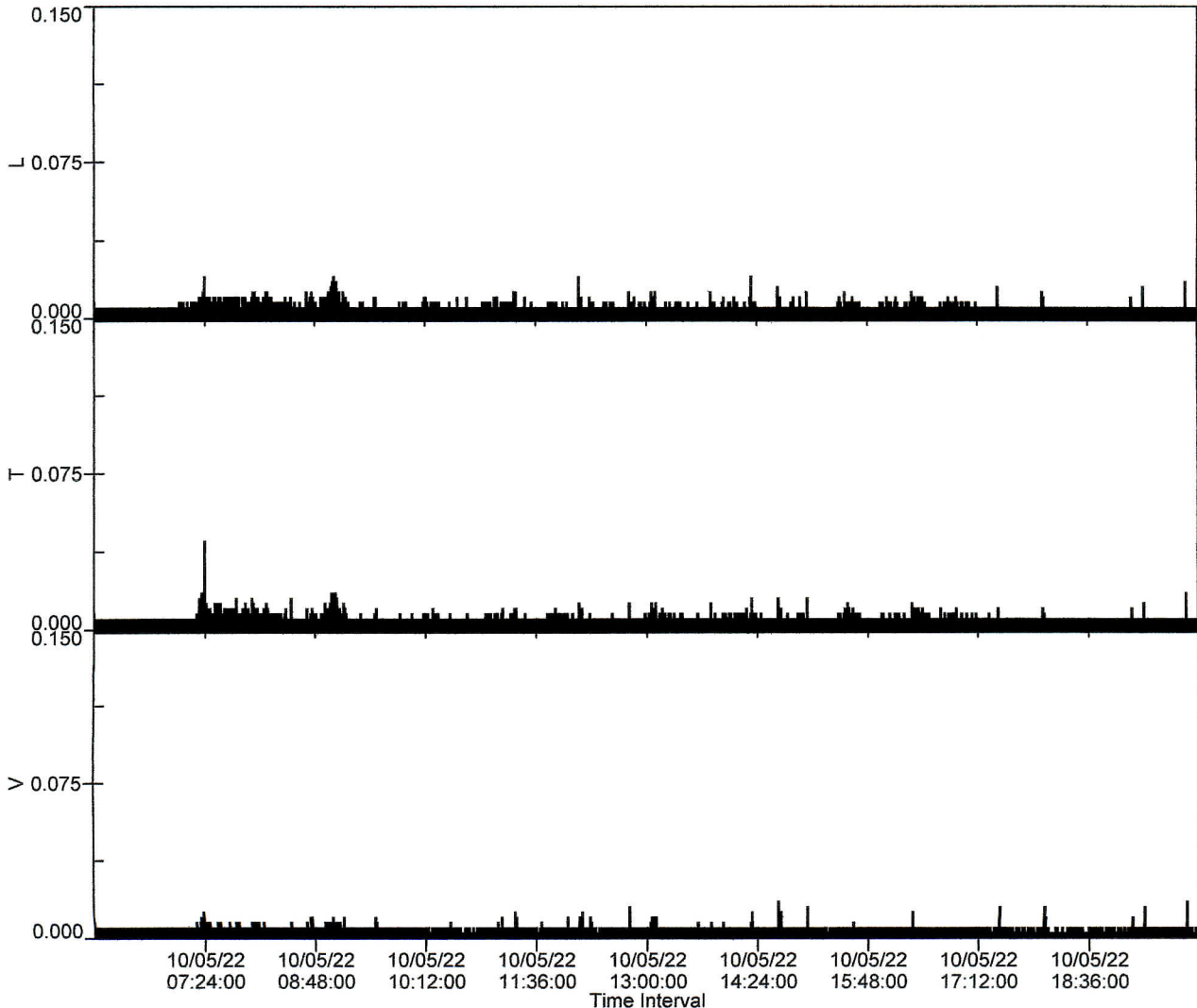
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 138

Record Max PPV: 0.043 in/s Record Max DB: 102 db



SN: 3647 v2.75
Date: 10/06/2022 **Time:** 06:01:00
Event: 139
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

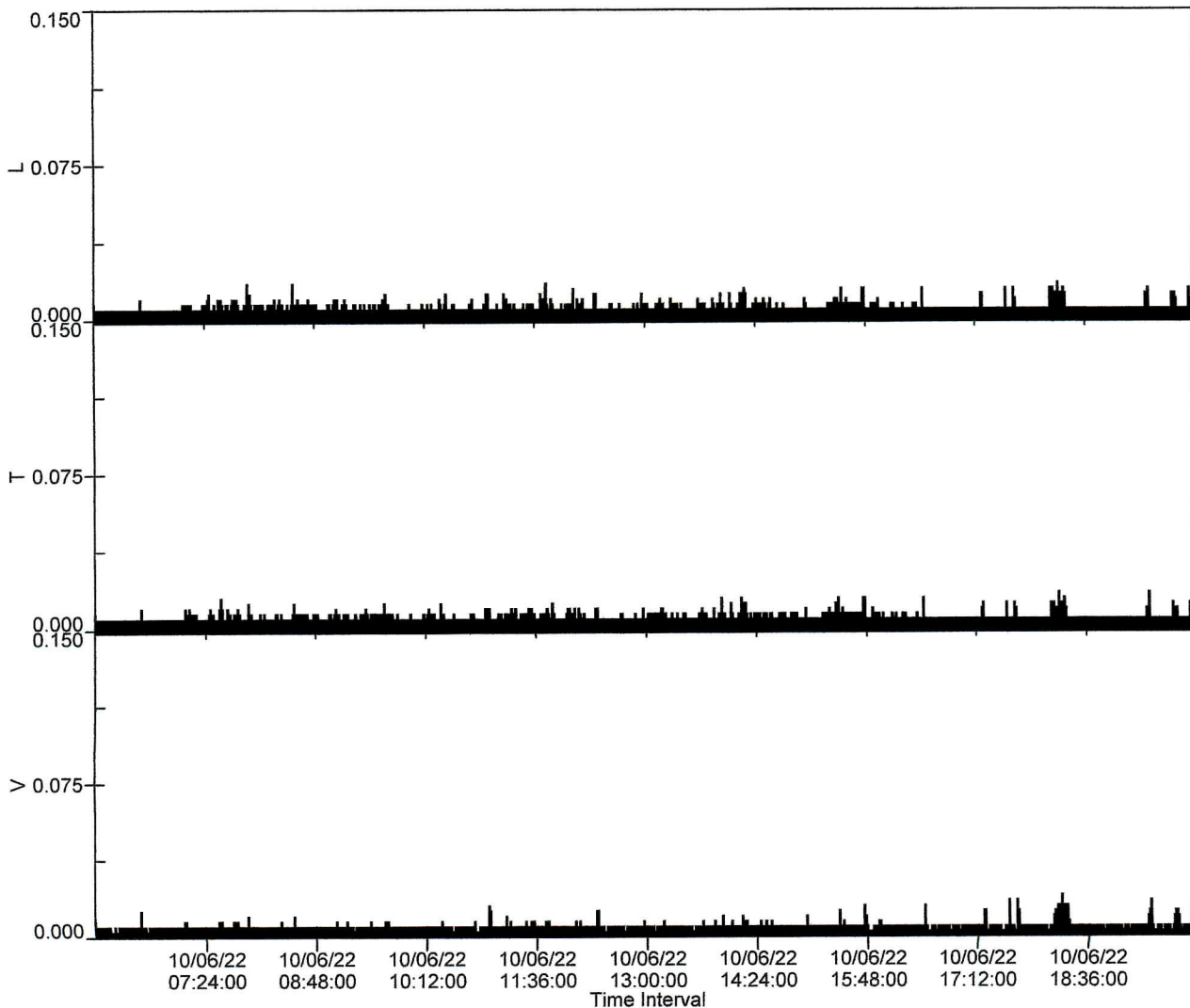
	L	T	V
PPV (in/s)	0.018	0.018	0.020
FREQ (Hz)	15.2	125.0	166.7
Peak Air Pressure:	102 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 139

Record Max PPV: 0.020 in/s Record Max DB: 102 db



SN: 3647 v2.75
Date: 10/07/2022 **Time:** 06:01:00
Event: 140
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

	L	T	V
PPV (in/s)	0.100	0.060	0.108
FREQ (Hz)	50.0	55.6	50.0
Peak Air Pressure:	101 db		

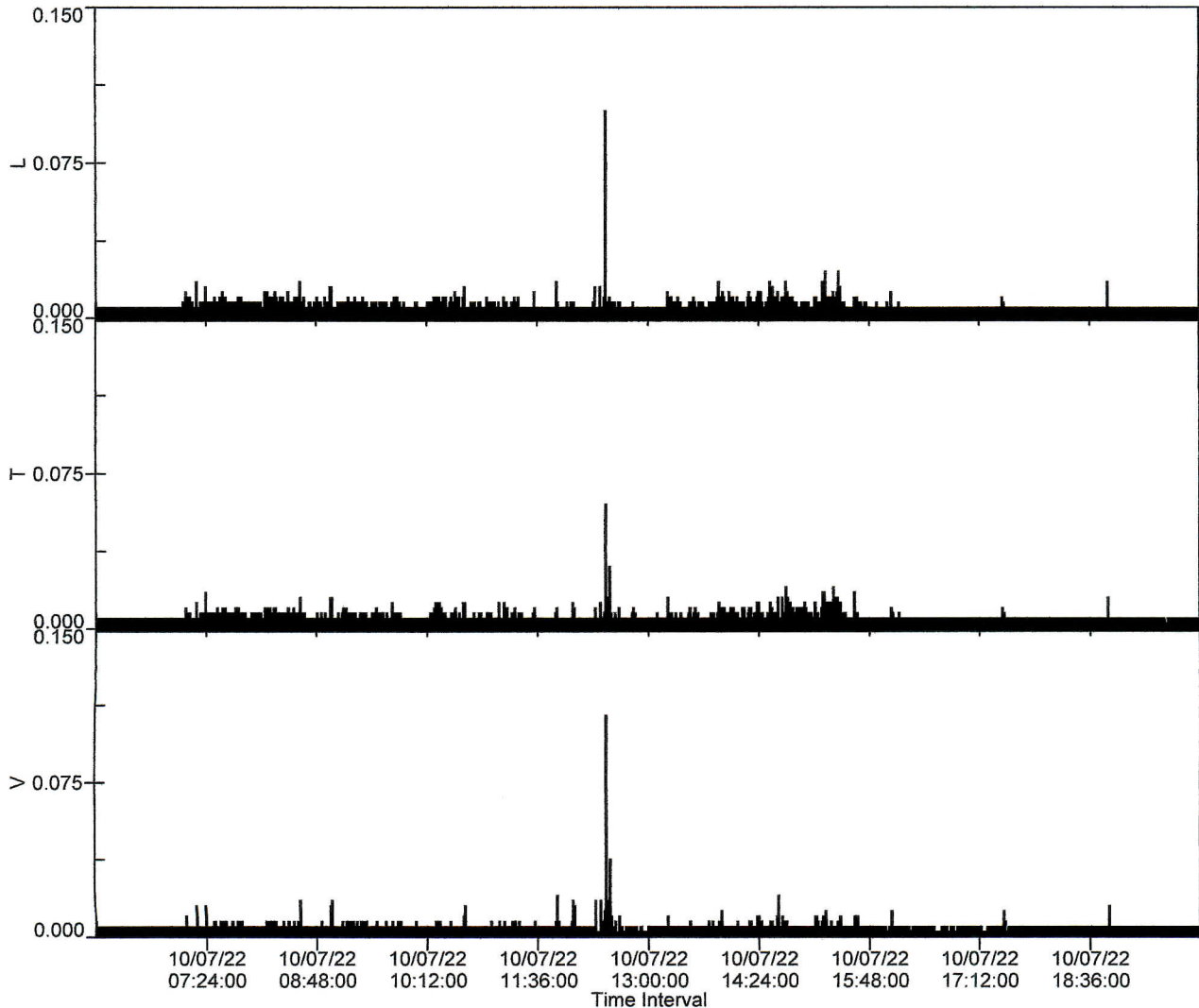
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 140

Record Max PPV: 0.108 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/08/2022 **Time:** 06:01:00
Event: 141
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

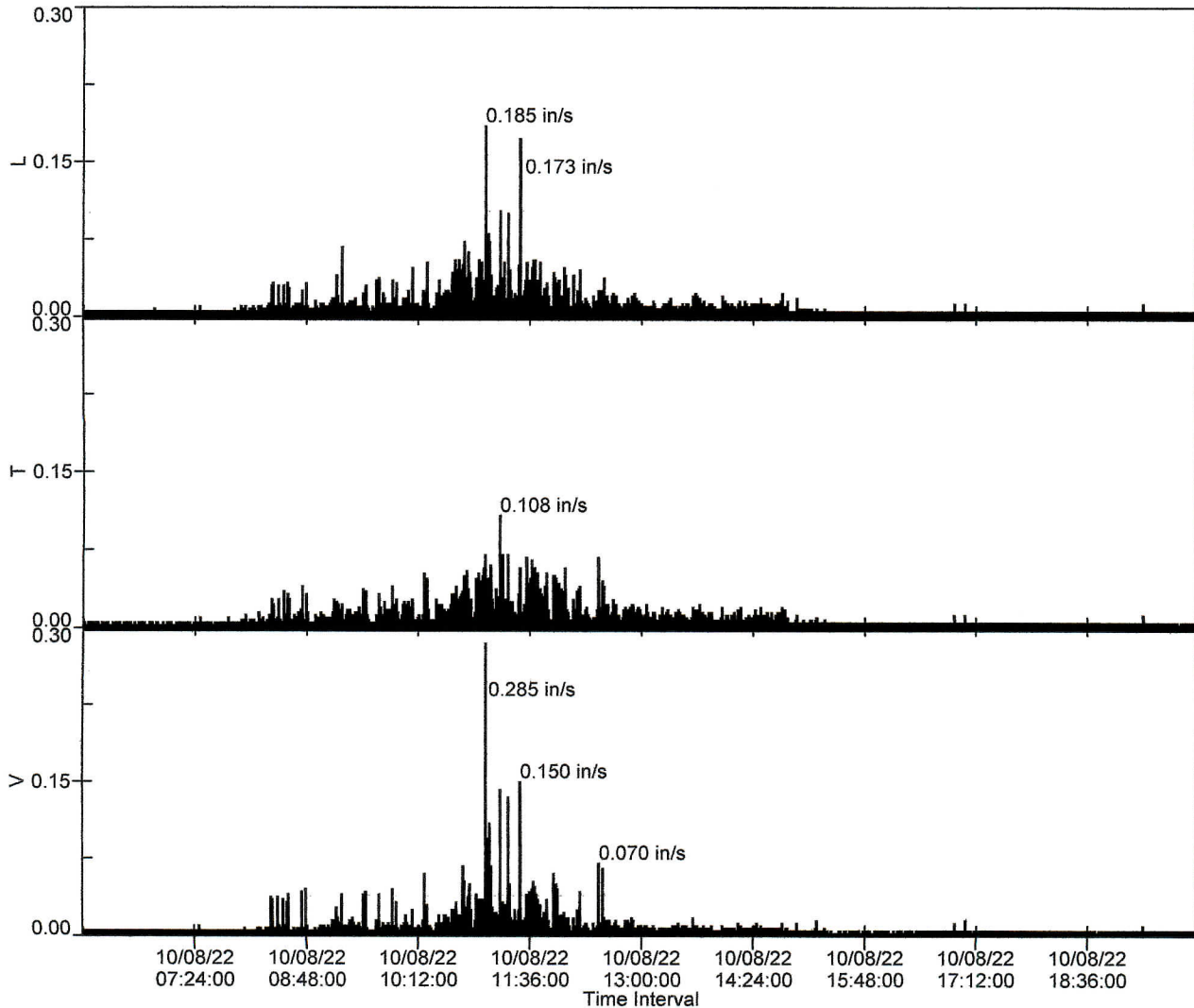
	L	T	V
PPV (in/s)	0.185	0.108	0.285
FREQ (Hz)	31.3	29.4	25.0
Peak Air Pressure:	101 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 141

Record Max PPV: 0.285 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/09/2022 **Time:** 06:01:00
Event: 142
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

	L	T	V
PPV (in/s)	0.015	0.015	0.015
FREQ (Hz)	166.7	166.7	500.0
Peak Air Pressure:	98 db		

Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

Additional Info:

Shaketable Calibrated: 03/22/2022
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

SN: 3647 Event: 142

Record Max PPV: 0.015 in/s Record Max DB: 98 db

