

NSP Phase 3 Thornwood Park Project
Wilmette, Illinois

**VIBRATION
MONITORING
REPORT-11**

Mike Zika
Berger Excavating
1205 Garland Rd
Wauconda, IL 60084

October 24, 2022

Cti



4262 Old Grand Ave
Suite 102
Chicago, IL 60031

October 24, 2022

Mike Zika
Berger Excavating
1205 Garland Rd
Wauconda, IL 60084

RE: **Report 11:** - *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 **October 10, 2022 through October 24, 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 13, 2022	Southwest Corner of Park	Unit #3734	L	0.100 (in/s)
October 14, 2022	2345 Thornwood Avenue	Unit #3733	L	0.132 (in/s)
October 10, 2022	East Side of Park – Colgate St.	Unit #3647	L	0.130 (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: 10/10/2022 **Time:** 12:16:00
Event: 144
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

Continuous Monitor Recording

Summary Data

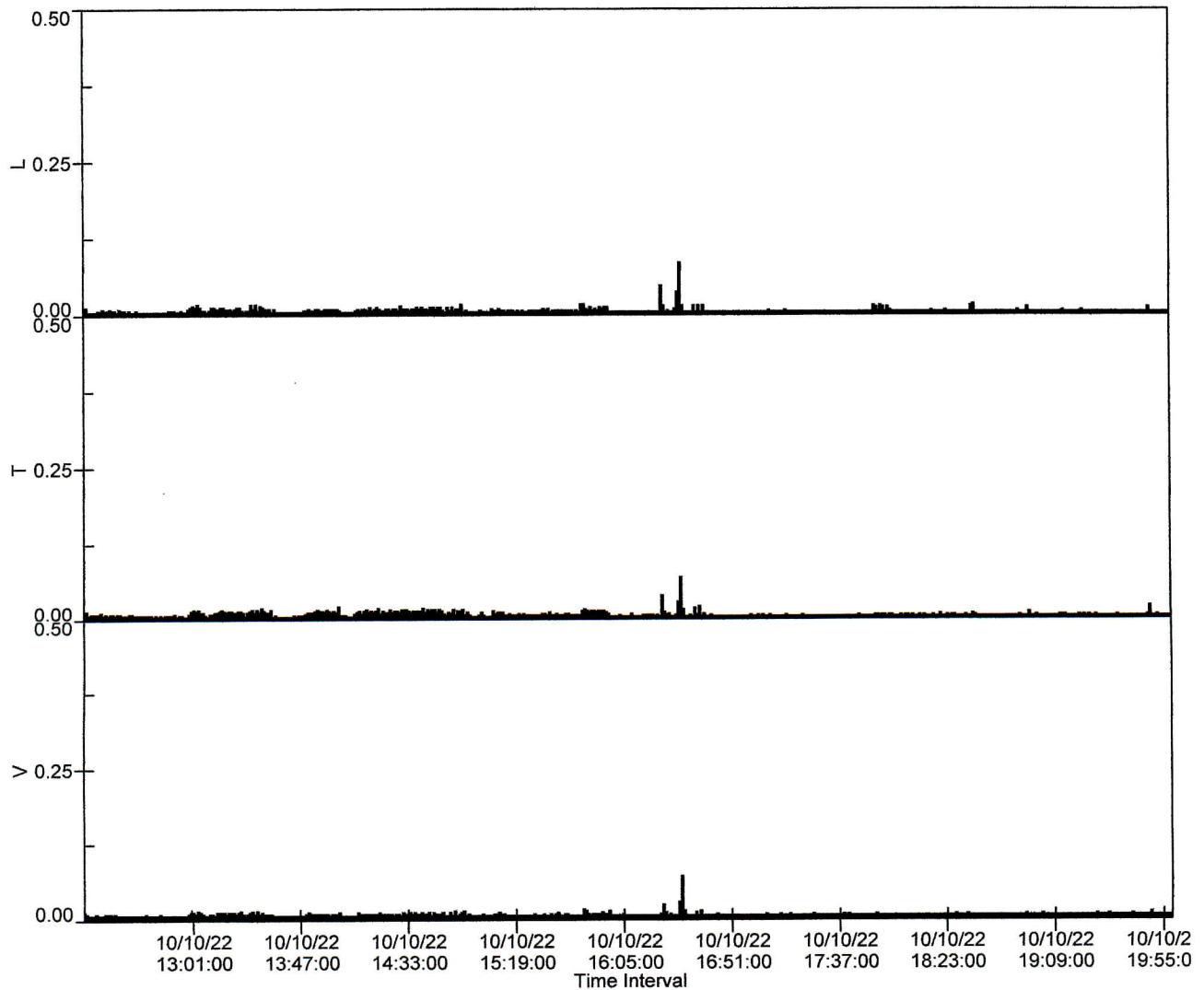
	L	T	V
PPV (in/s)	0.085	0.070	0.073
FREQ (Hz)	26.3	27.8	33.3
Peak Air Pressure:	94 db		
Recording Time:	463 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 144

Record Max PPV: 0.085 in/s Record Max DB: 94 db



SN: 3734 v3.22
Date: 10/11/2022 **Time:** 06:01:00
Event: 145
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

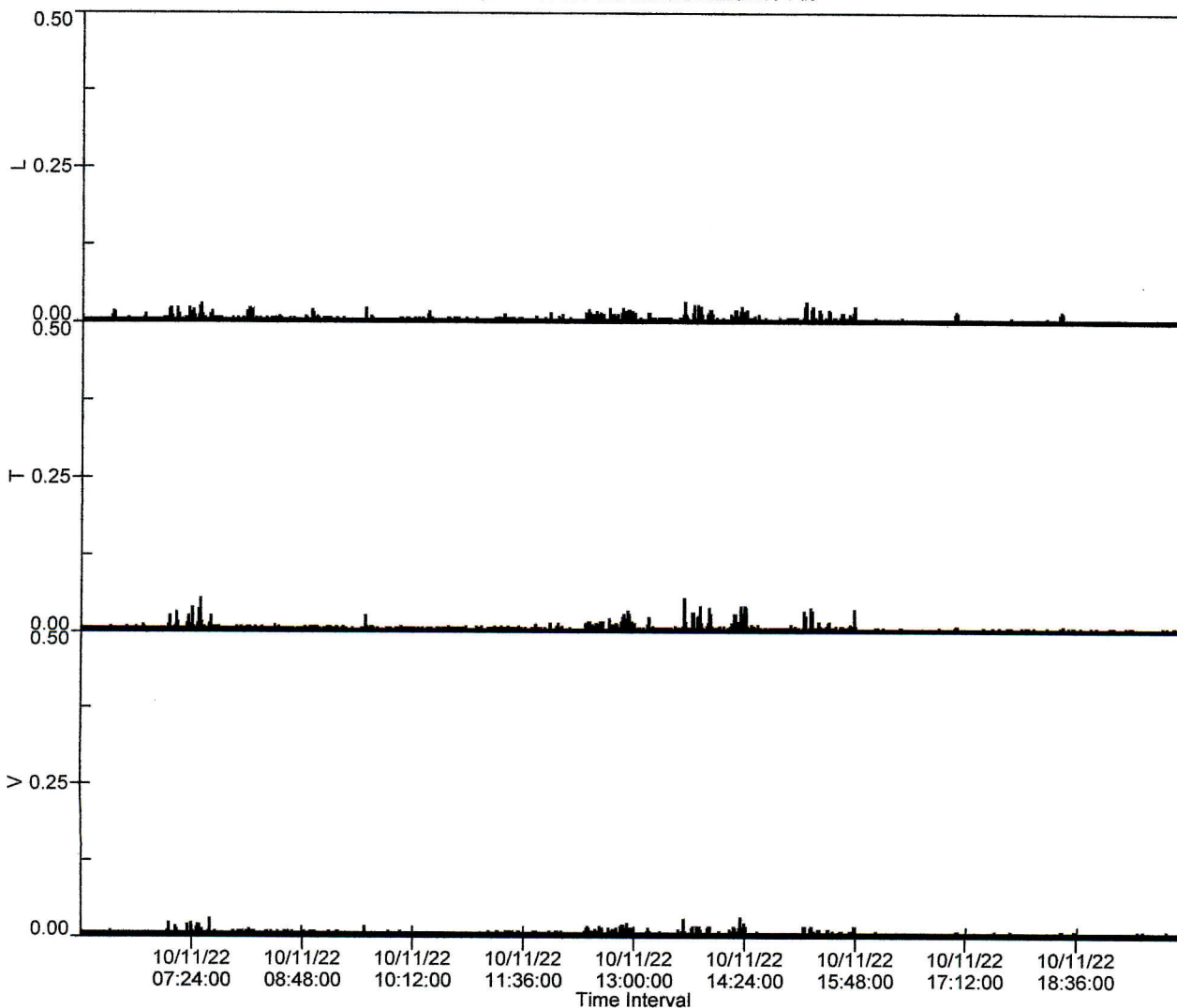
	L	T	V
PPV (in/s)	0.033	0.055	0.033
FREQ (Hz)	20.8	20.8	38.5
Peak Air Pressure:	94 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 145

Record Max PPV: 0.055 in/s Record Max DB: 94 db



SN: 3734 v3.22
Date: 10/12/2022 **Time:** 06:01:00
Event: 146
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

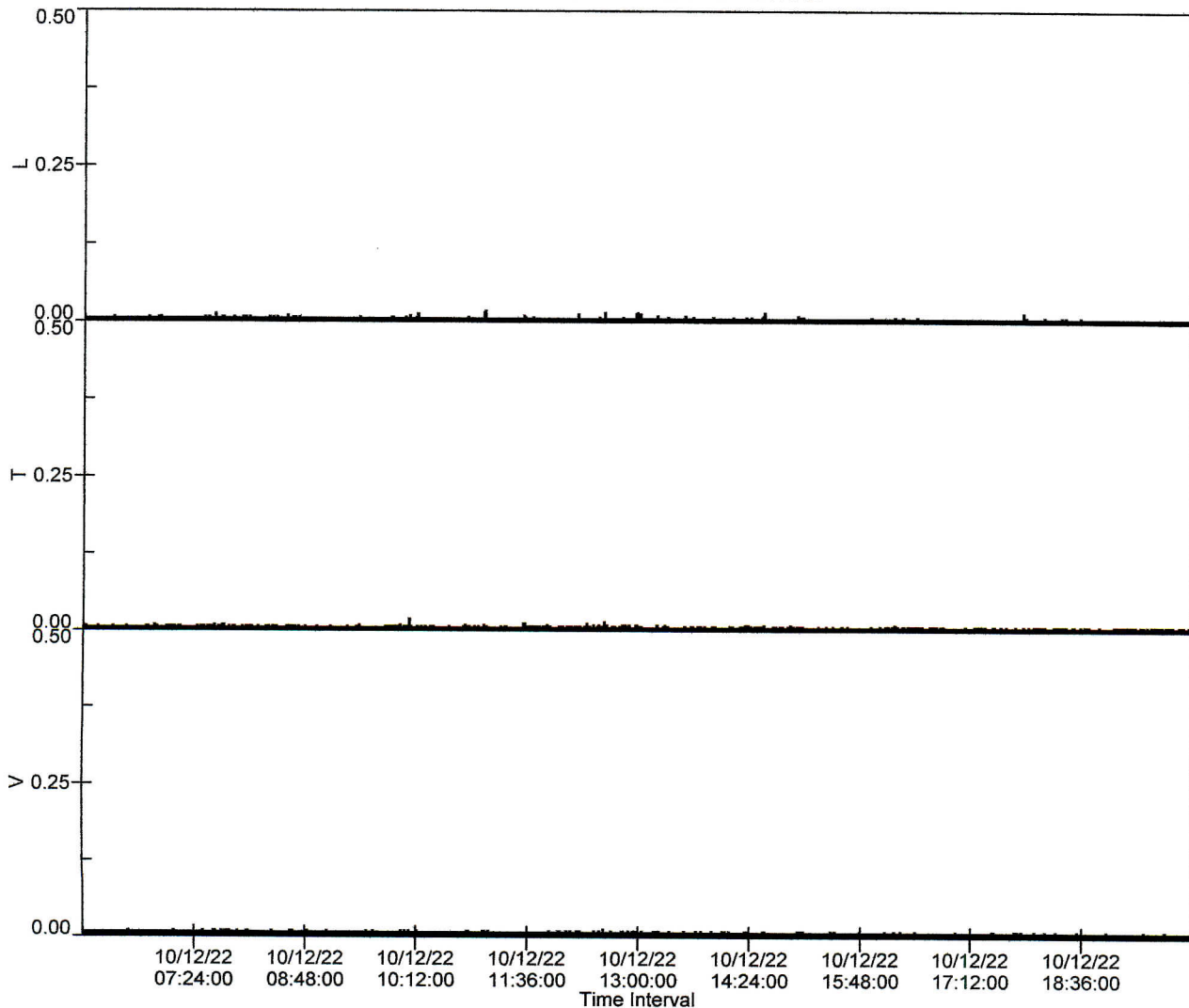
	L	T	V
PPV (in/s)	0.018	0.020	0.013
FREQ (Hz)	250.0	50.0	.2
Peak Air Pressure:	90 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 146

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



SN: 3734 v3.22
Date: 10/13/2022 **Time:** 06:01:00
Event: 147
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

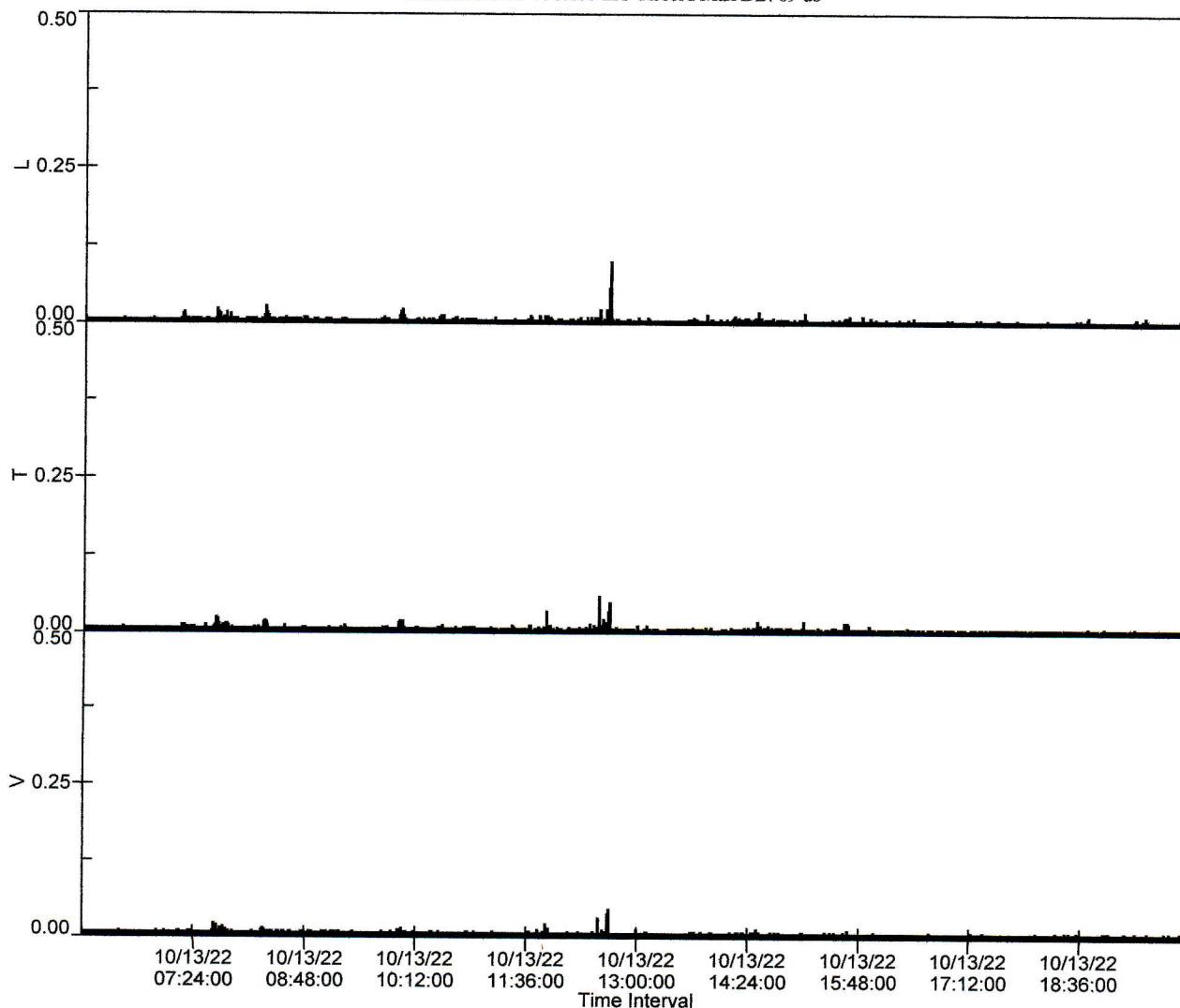
	L	T	V
PPV (in/s)	0.100	0.060	0.048
FREQ (Hz)	23.8	26.3	26.3
Peak Air Pressure:	89 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 147

Record Max PPV: 0.100 in/s Record Max DB: 89 db



SN: 3734 v3.22
Date: 10/15/2022 **Time:** 06:01:00
Event: 149
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

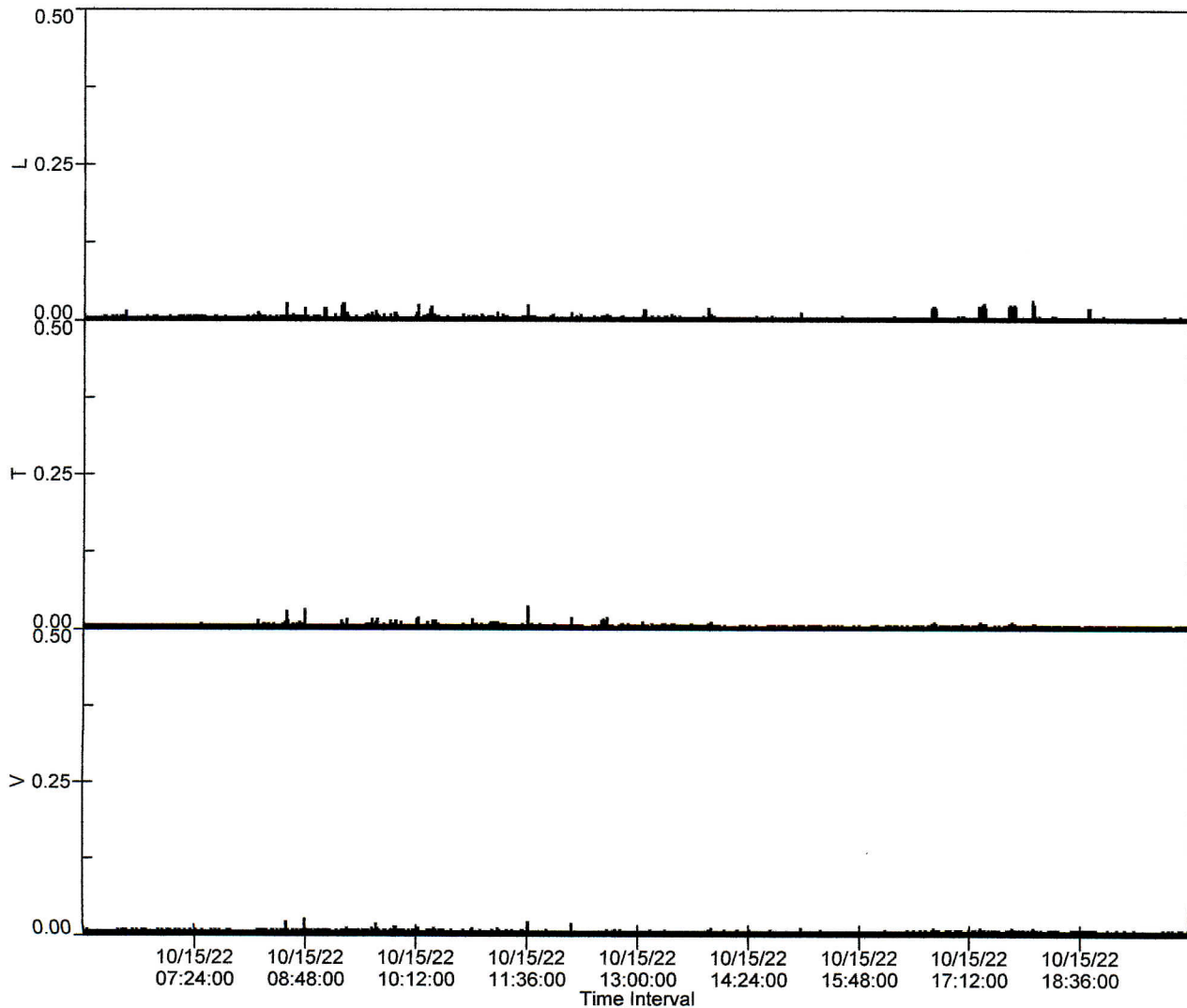
	L	T	V
PPV (in/s)	0.033	0.038	0.028
FREQ (Hz)	250.0	29.4	29.4
Peak Air Pressure:	94 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 149

Record Max PPV: 0.038 in/s Record Max DB: 94 db



SN: 3734 v3.22
Date: 10/16/2022 **Time:** 06:01:00
Event: 150
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	0.013	0.015
FREQ (Hz)	250.0	166.7	166.7
Peak Air Pressure:	94 db		

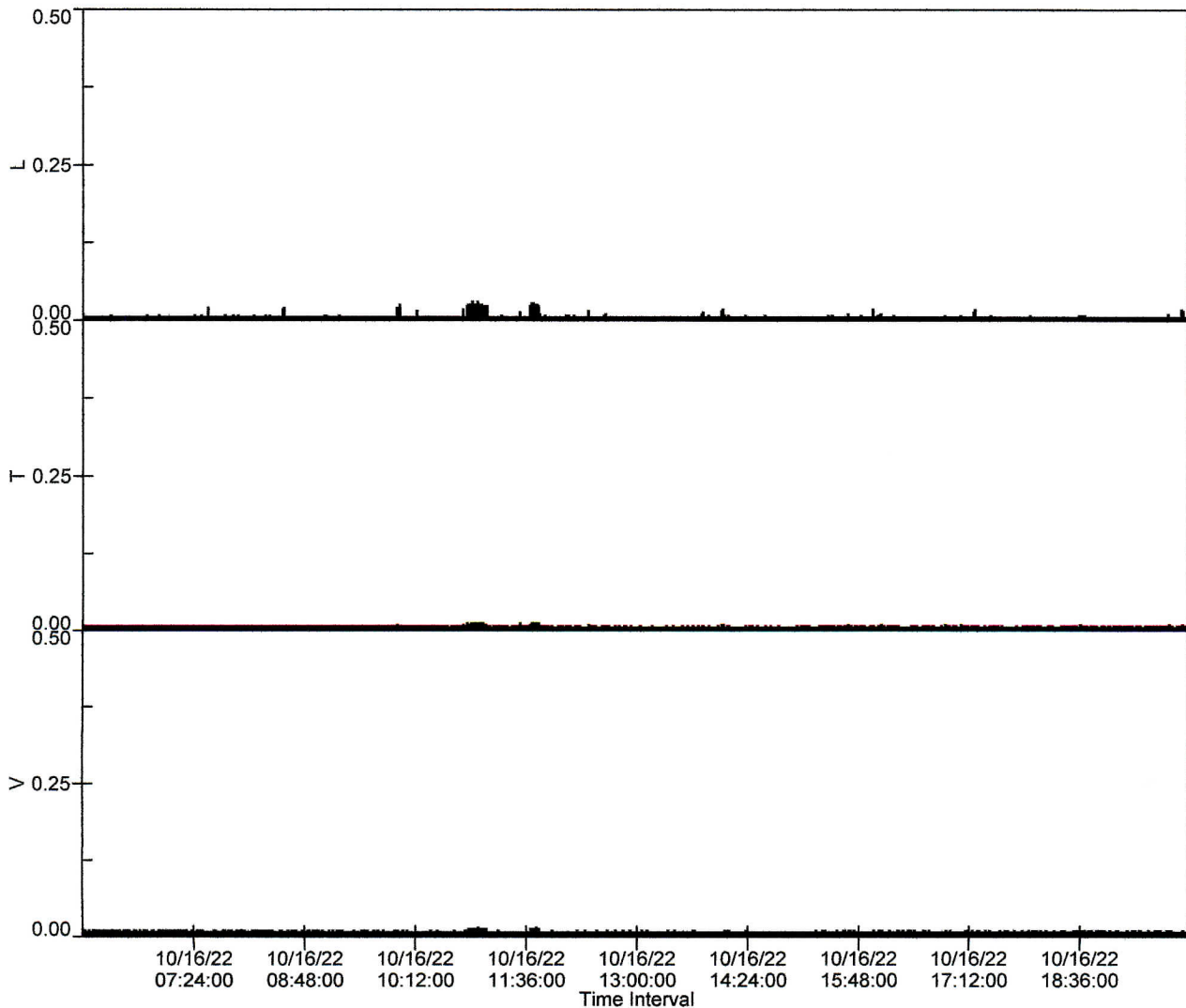
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 150

Record Max PPV: 0.030 in/s Record Max DB: 94 db



SN: 3734 v3.22
Date: 10/17/2022 **Time:** 11:29:00
Event: 152
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

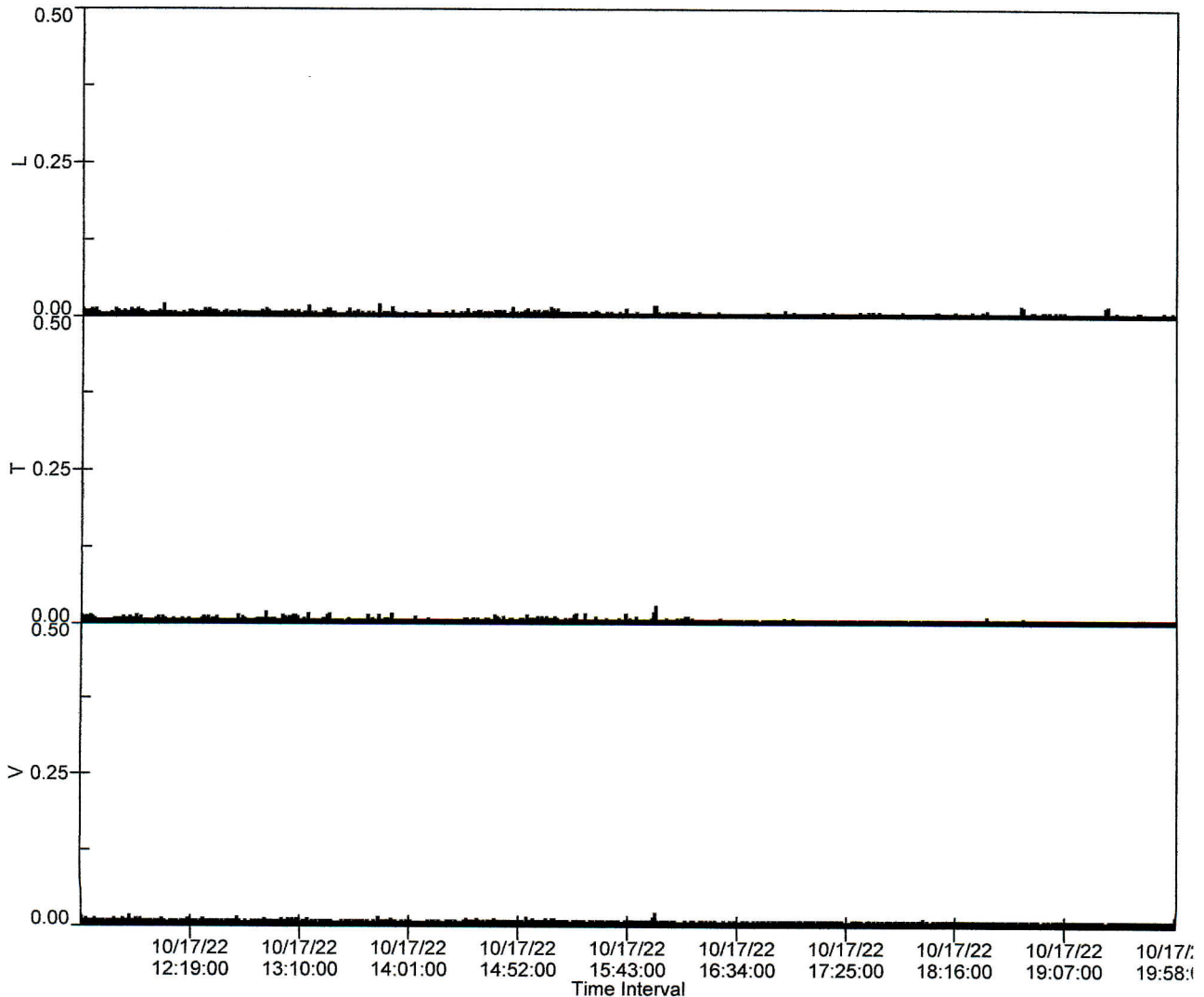
	L	T	V
PPV (in/s)	0.020	0.030	0.023
FREQ (Hz)	16.7	33.3	33.3
Peak Air Pressure:	89 db		
Recording Time:	510 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 152

Record Max PPV: 0.030 in/s Record Max DB: 89 db



SN: 3734 v3.22
Date: 10/18/2022 **Time:** 06:01:00
Event: 153
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

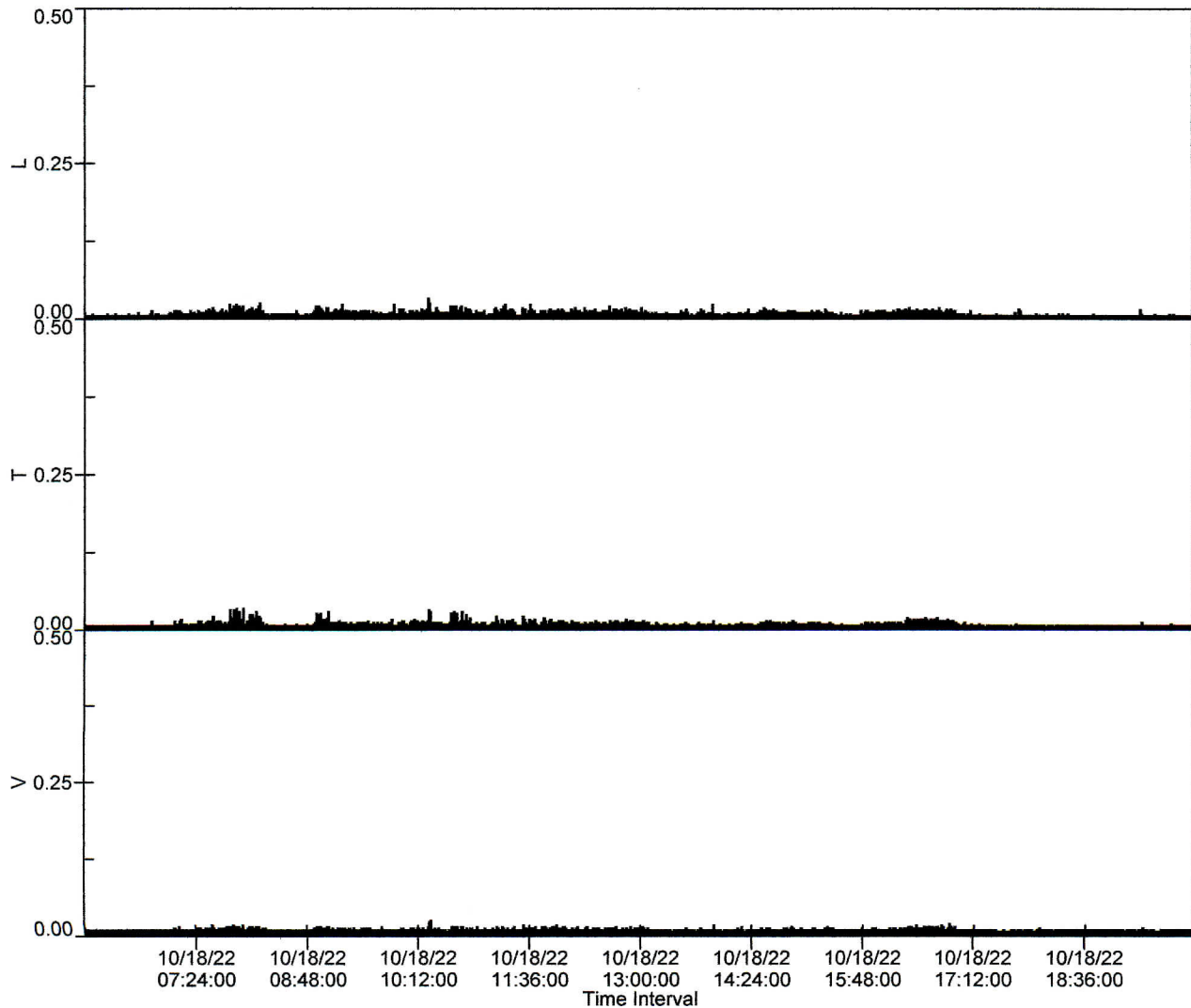
	L	T	V
PPV (in/s)	0.033	0.035	0.025
FREQ (Hz)	17.2	29.4	26.3
Peak Air Pressure:	86 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 153

Record Max PPV: 0.035 in/s Record Max DB: 86 db



SN: 3734 v3.22
Date: 10/19/2022 **Time:** 06:01:00
Event: 154
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	0.025	0.020
FREQ (Hz)	83.3	10.4	9.4
Peak Air Pressure:	89 db		

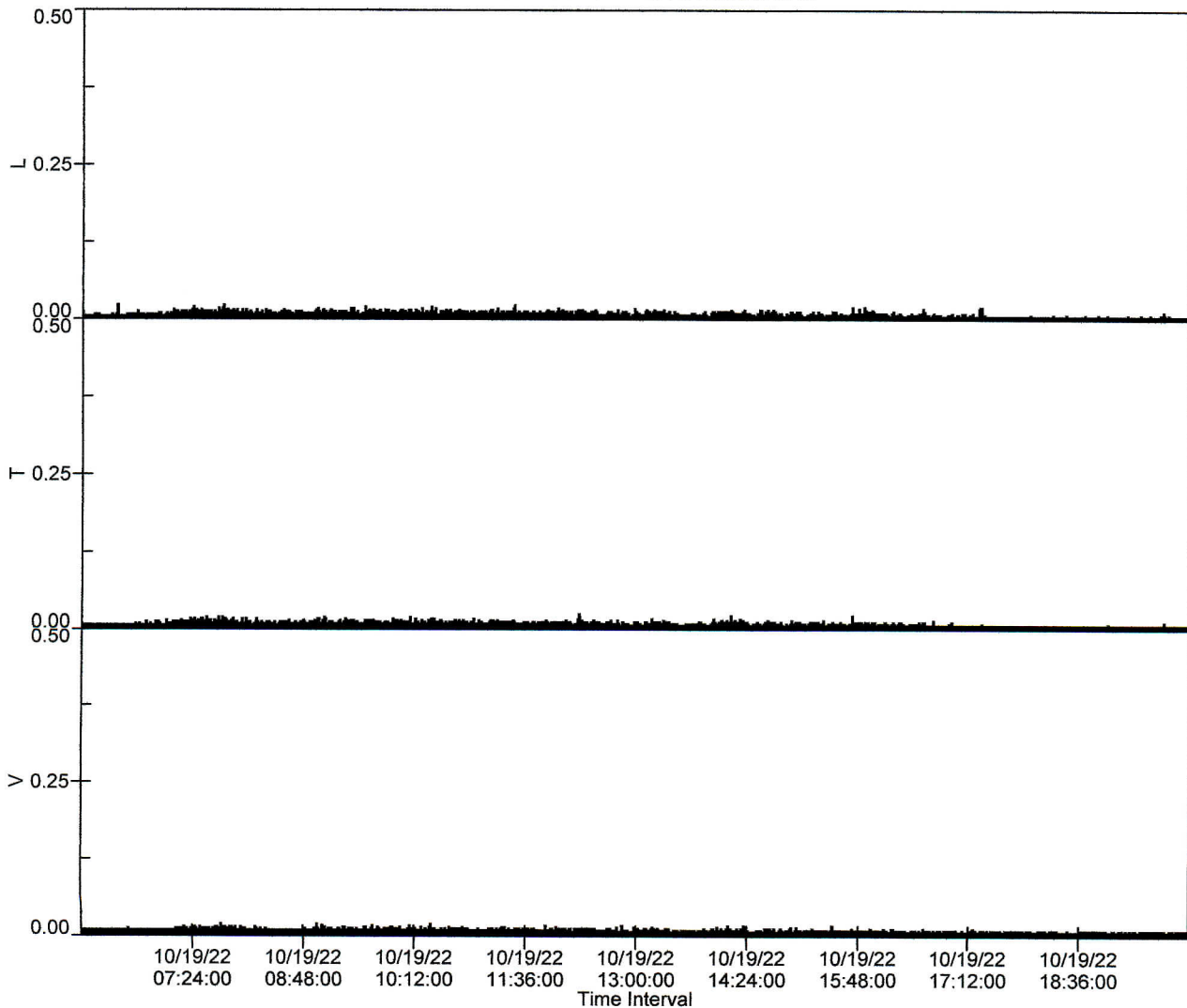
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 154

Record Max PPV: 0.025 in/s Record Max DB: 89 db



SN: 3734 v3.22
Date: 10/20/2022 **Time:** 06:01:00
Event: 155
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

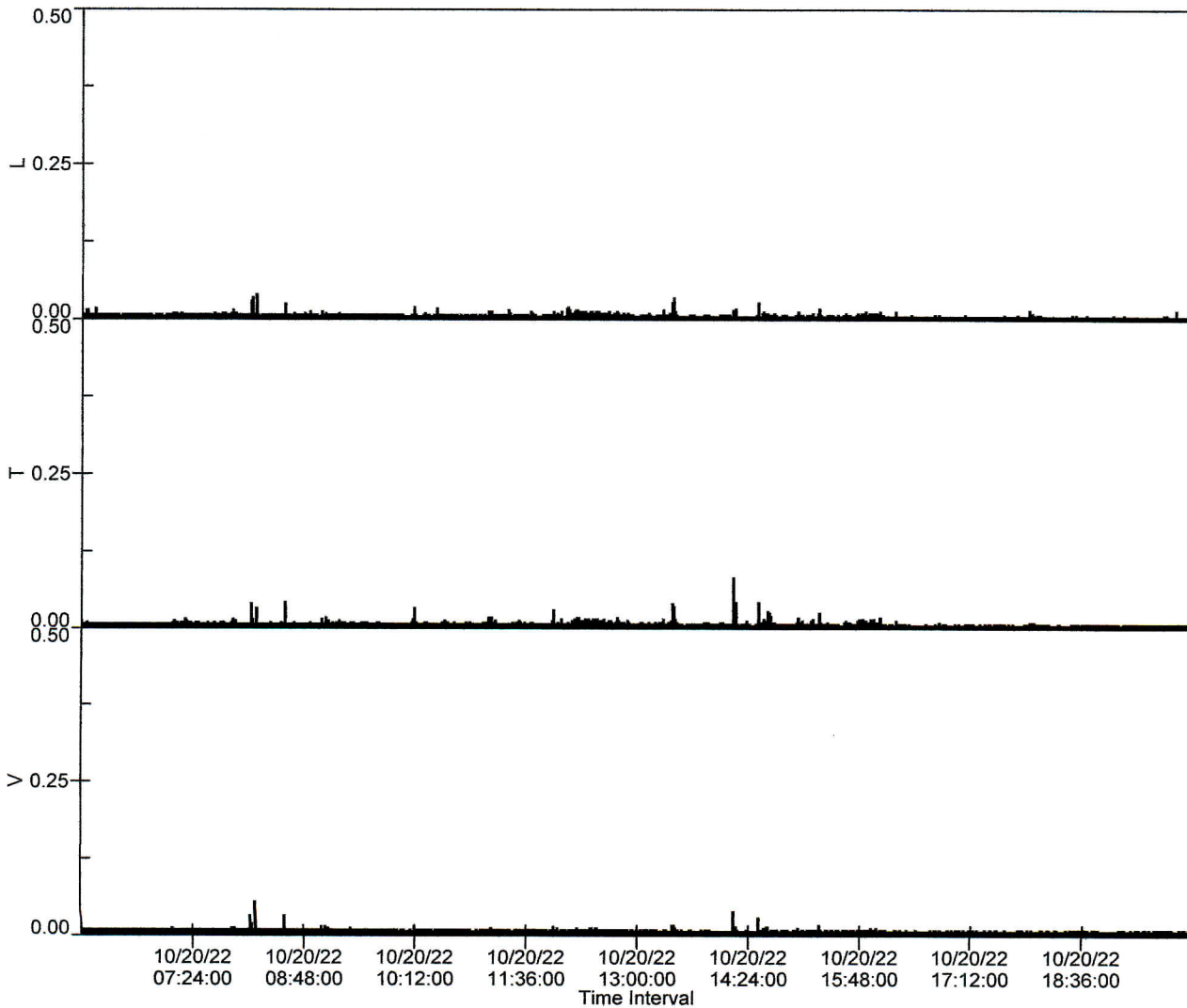
	L	T	V
PPV (in/s)	0.040	0.083	0.055
FREQ (Hz)	83.3	27.8	71.4
Peak Air Pressure:	89 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 155

Record Max PPV: 0.083 in/s Record Max DB: 89 db



SN: 3734 v3.22
Date: 10/21/2022 **Time:** 06:01:00
Event: 156
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	0.063	0.038
FREQ (Hz)	29.4	31.3	33.3
Peak Air Pressure:	94 db		

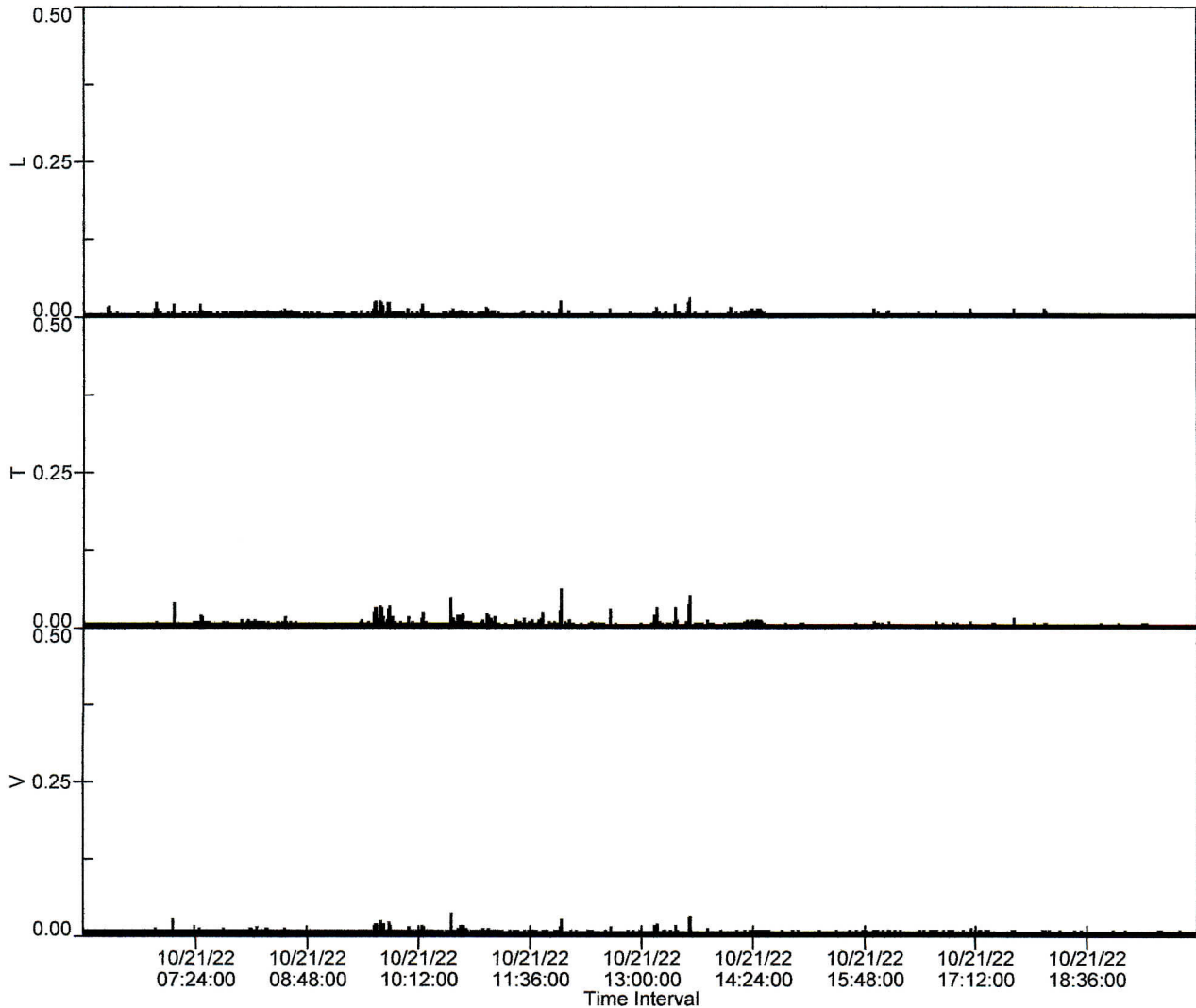
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 156

Record Max PPV: 0.063 in/s Record Max DB: 94 db



SN: 3734 v3.22
Date: 10/22/2022 **Time:** 06:01:00
Event: 157
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)	0.040	0.055	0.058
FREQ (Hz)	62.5	62.5	45.5
Peak Air Pressure:	95 db		

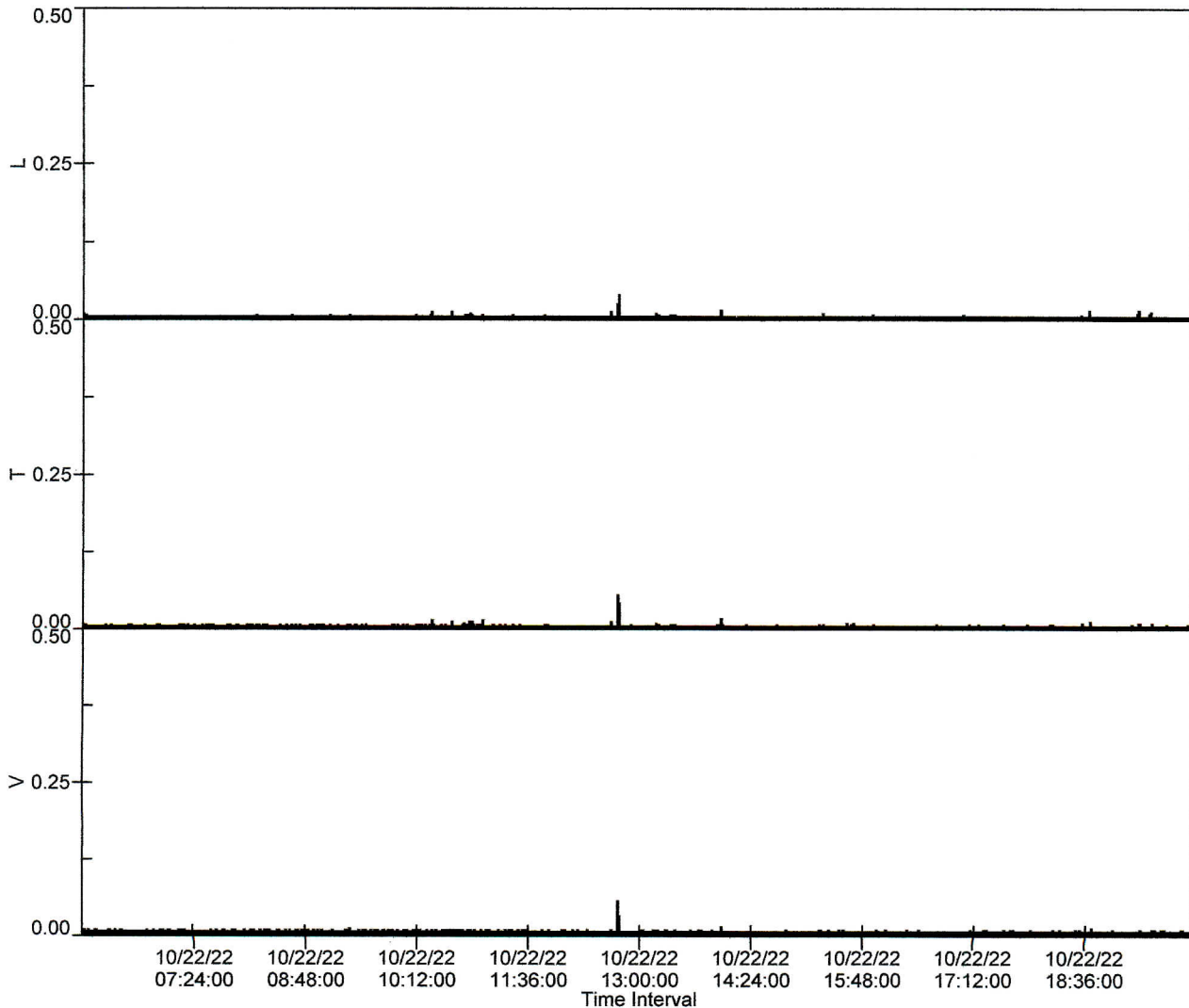
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 157

Record Max PPV: 0.058 in/s Record Max DB: 95 db



SN: 3734 v3.22
Date: 10/23/2022 **Time:** 06:01:00
Event: 158
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: SW CORNER OF PARK

**Continuous Monitor Recording
Summary Data**

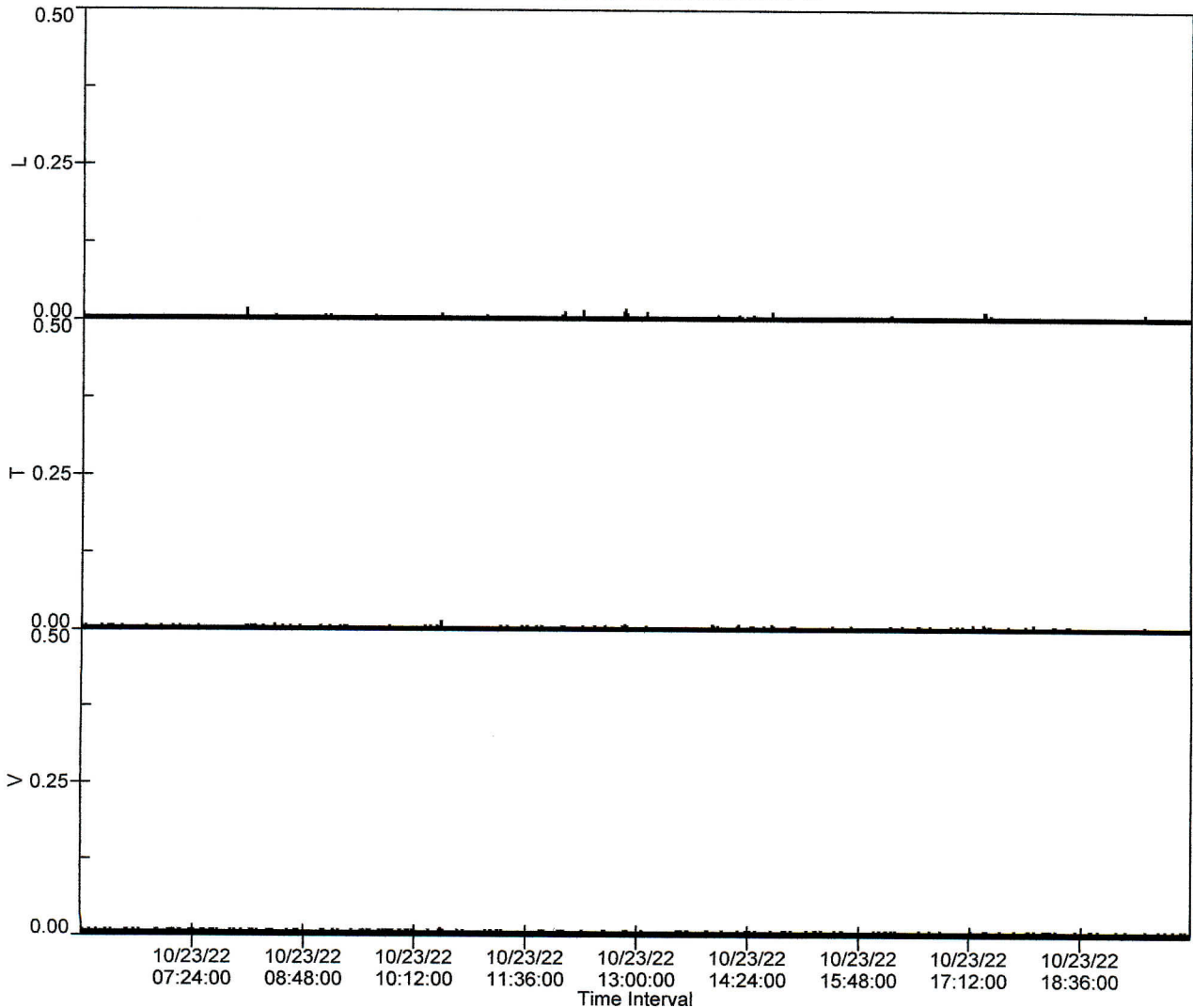
	L	T	V
PPV (in/s)	0.018	0.015	0.013
FREQ (Hz)	166.7	20.8	20.8
Peak Air Pressure:	95 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 158

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



SN: 3733 v3.22
Date: 10/24/2022 **Time:** 06:01:00
Event: 158
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)	0.028	0.018	0.018
FREQ (Hz)	14.3	20.0	12.5
Peak Air Pressure:	86 db		

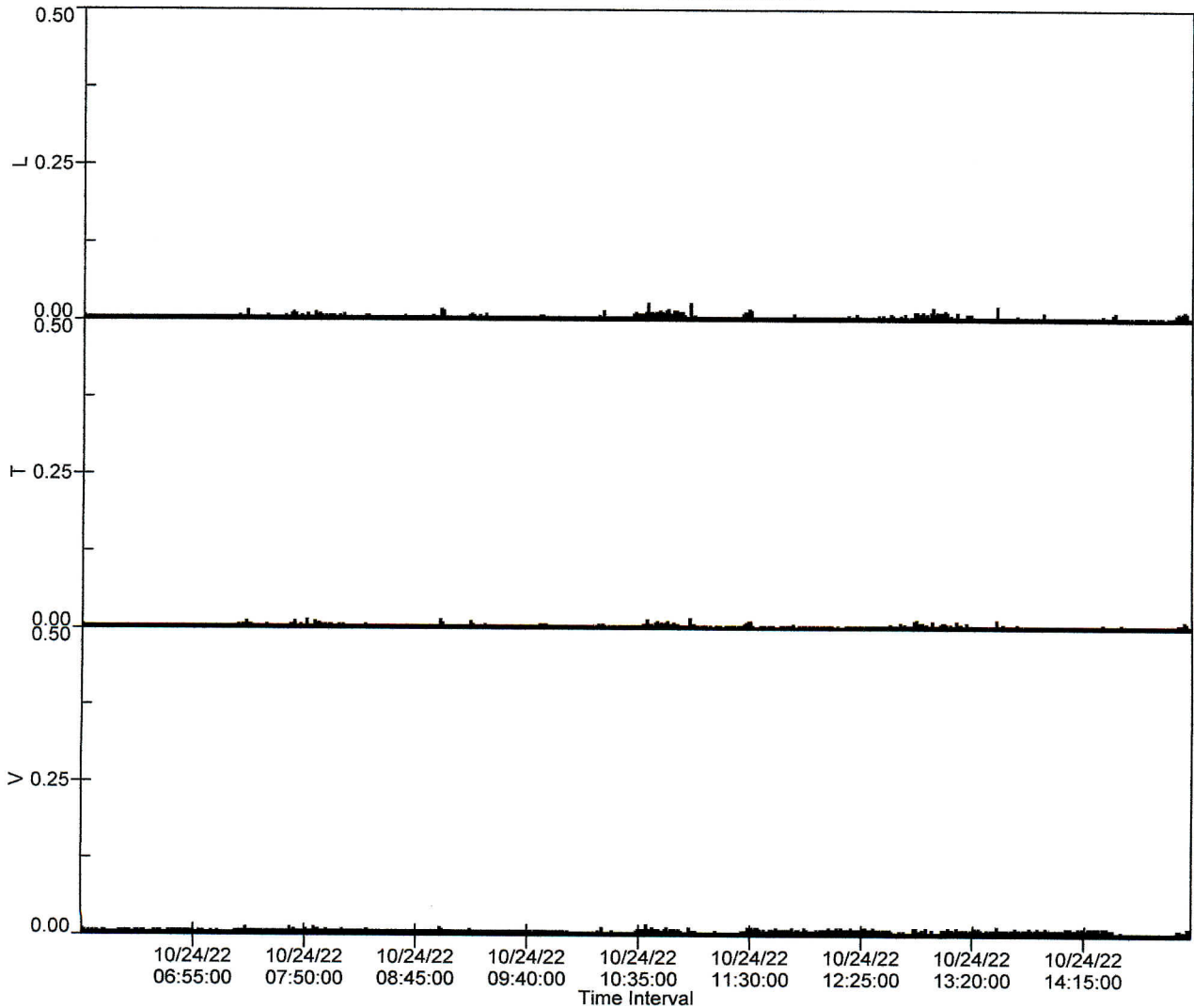
Recording Time: 547 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 158

Record Max PPV: 0.028 in/s Record Max DB: 86 db



SN: 3733 v3.22
Date: 10/11/2022 **Time:** 06:01:00
Event: 145
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)	0.070	0.073	0.043
FREQ (Hz)	18.5	17.9	20.8
Peak Air Pressure:	84 db		

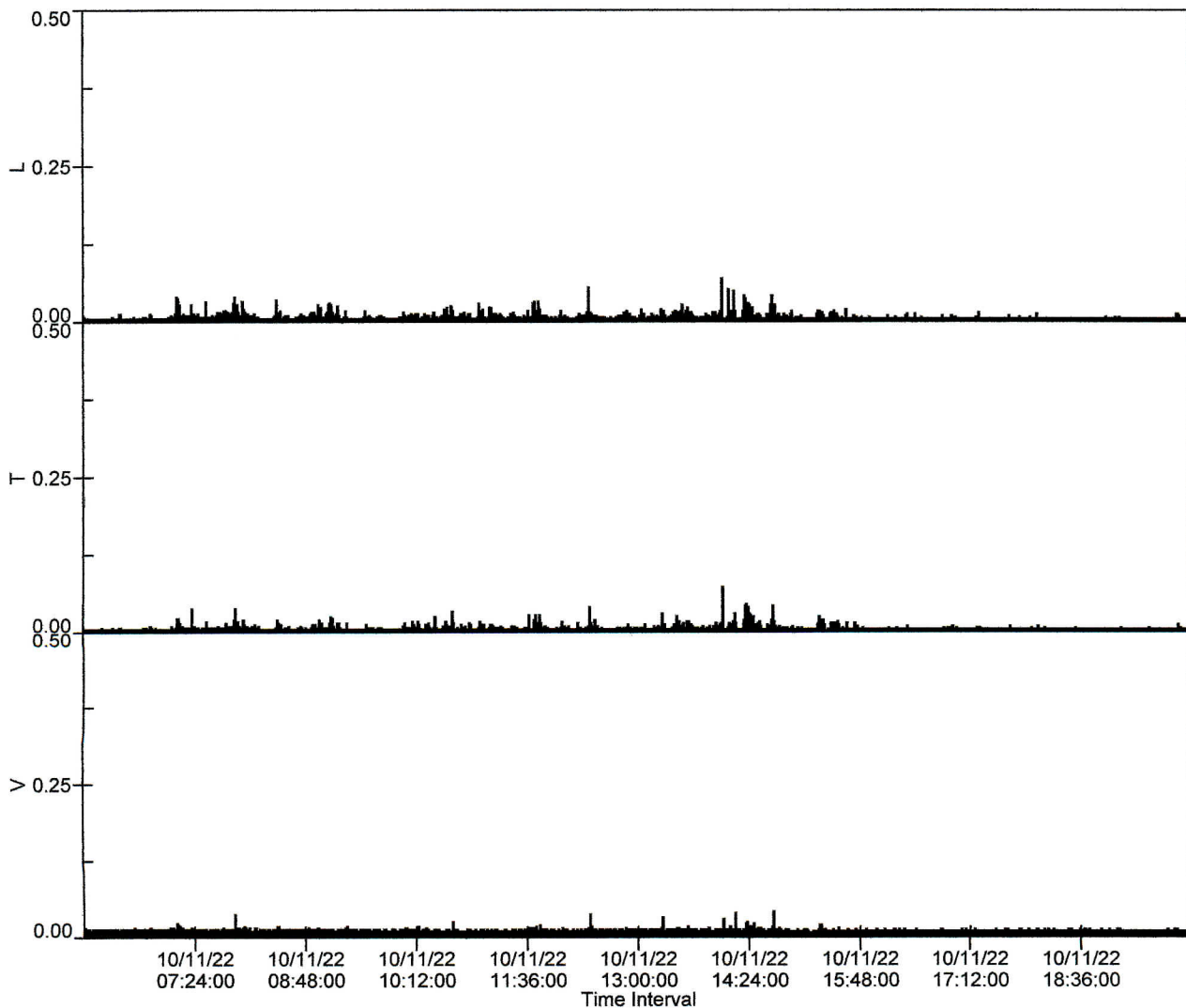
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 145

Record Max PPV: 0.073 in/s Record Max DB: 84 db



SN: 3733 v3.22
Date: 10/12/2022 **Time:** 06:01:00
Event: 146
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

**Continuous Monitor Recording
Summary Data**

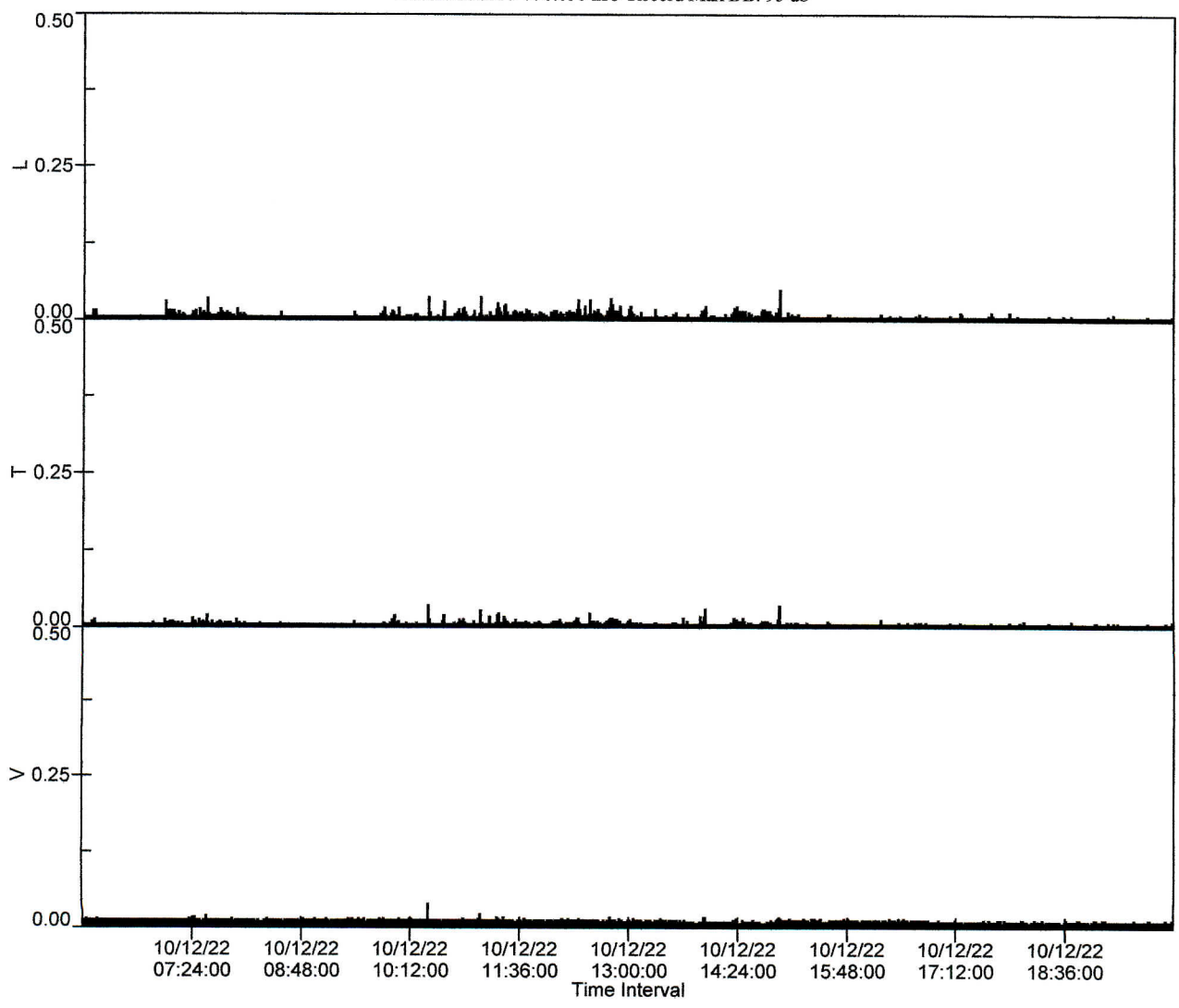
	L	T	V
PPV (in/s)	0.050	0.035	0.040
FREQ (Hz)	13.9	16.7	18.5
Peak Air Pressure:	95 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 146

Record Max PPV: 0.050 in/s Record Max DB: 95 db



SN: 3733 v3.22
Date: 10/13/2022 **Time:** 06:01:00
Event: 147
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: 2345 THORNWOOD

**Continuous Monitor Recording
Summary Data**

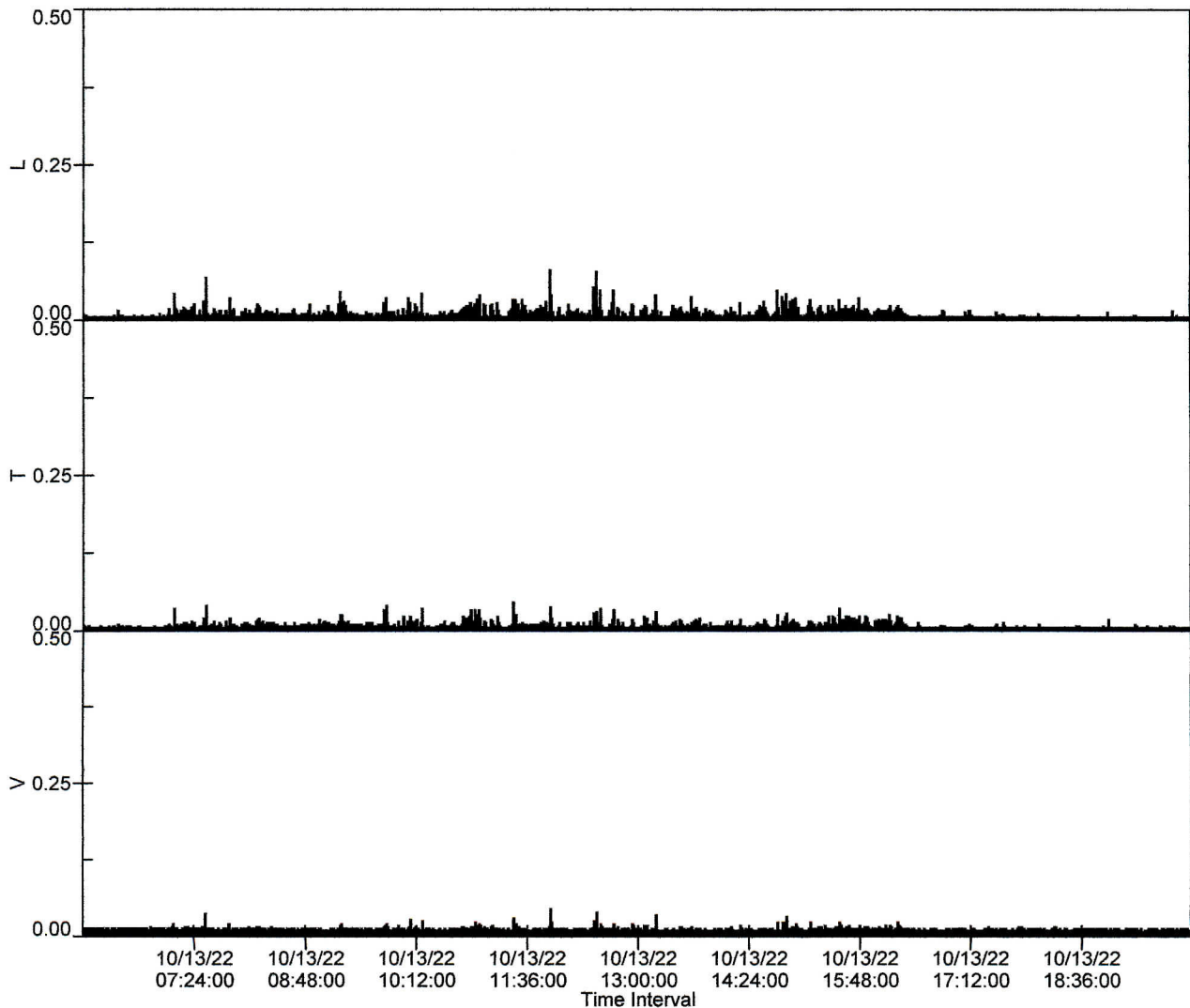
	L	T	V
PPV (in/s)	0.080	0.045	0.045
FREQ (Hz)	11.4	16.1	12.5
Peak Air Pressure:	84 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 147

Record Max PPV: 0.080 in/s Record Max DB: 84 db



SN: 3733 v3.22
Date: 10/15/2022 **Time:** 06:01:00
Event: 149
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)	0.118	0.115	0.098
FREQ (Hz)	9.3	17.2	20.8
Peak Air Pressure:	86 db		

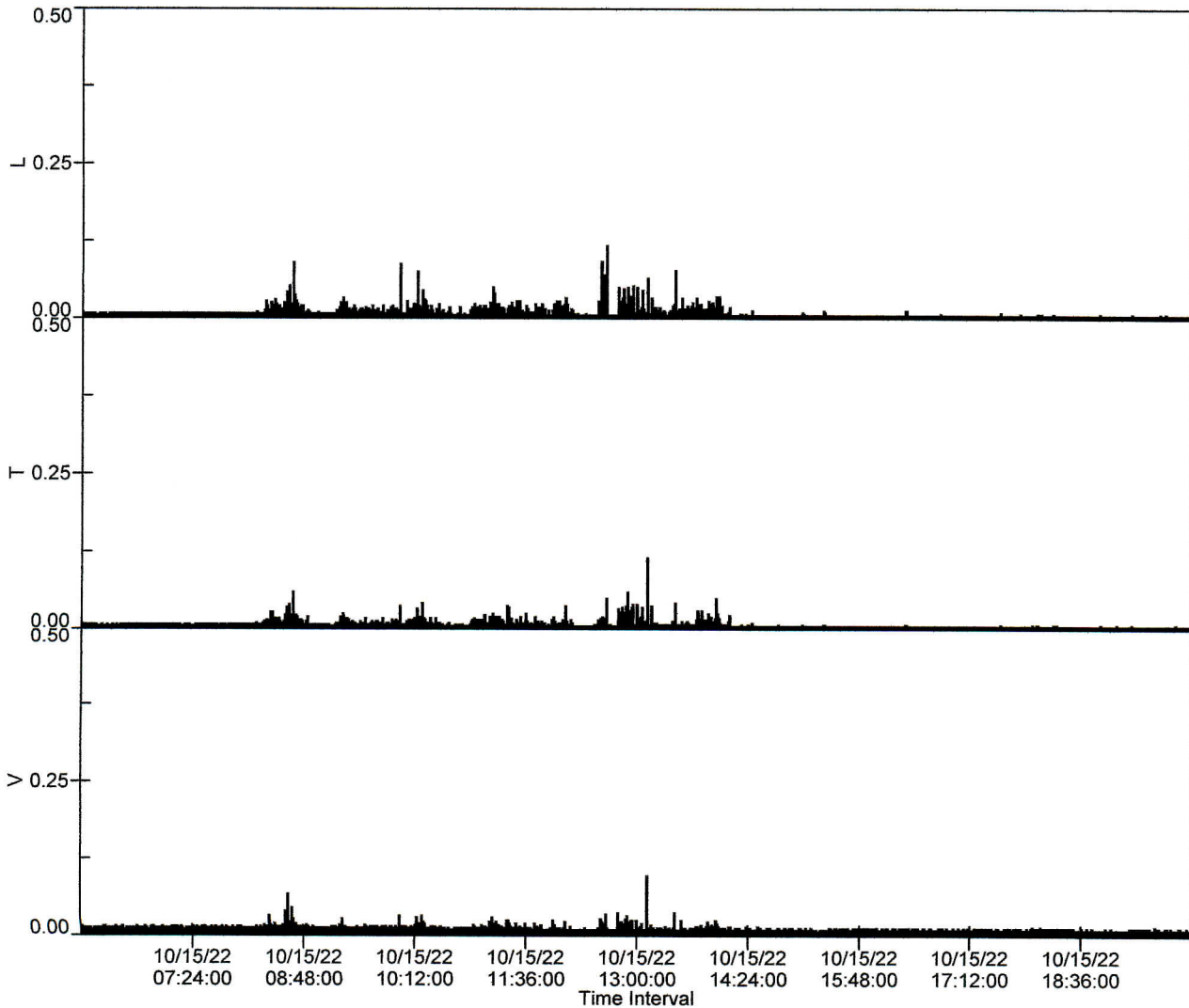
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 149

Record Max PPV: 0.118 in/s Record Max DB: 86 db



SN: 3733 v3.22
Date: 10/16/2022 **Time:** 06:01:00
Event: 150
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)	0.048	0.023	0.025
FREQ (Hz)	166.7	166.7	166.7
Peak Air Pressure:	102 db		

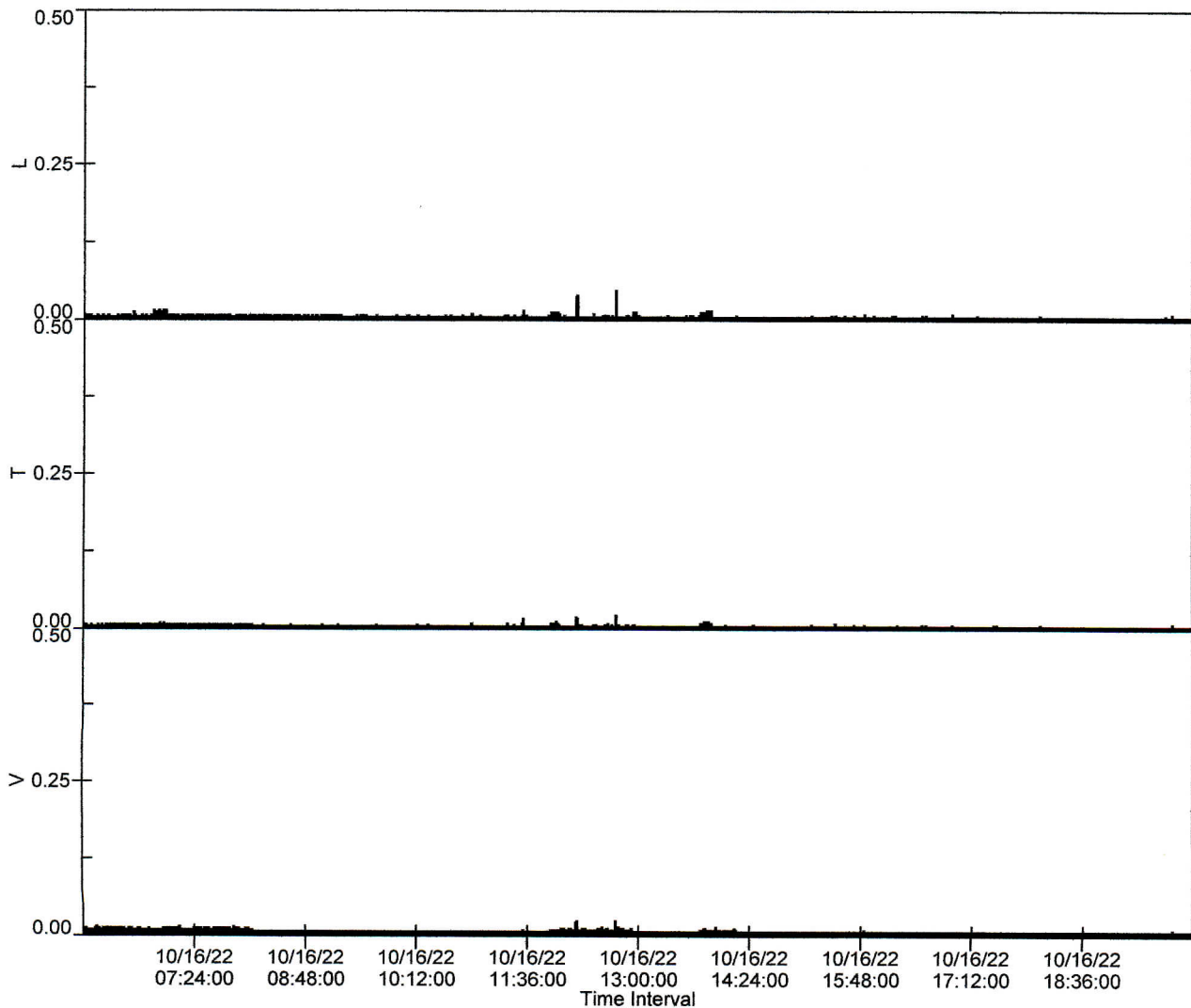
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 150

Record Max PPV: 0.048 in/s Record Max DB: 102 db



SN: 3733 v3.22
Date: 10/17/2022 **Time:** 06:01:00
Event: 151
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)	0.100	0.073	0.060
FREQ (Hz)	10.4	16.1	21.7
Peak Air Pressure:	94 db		

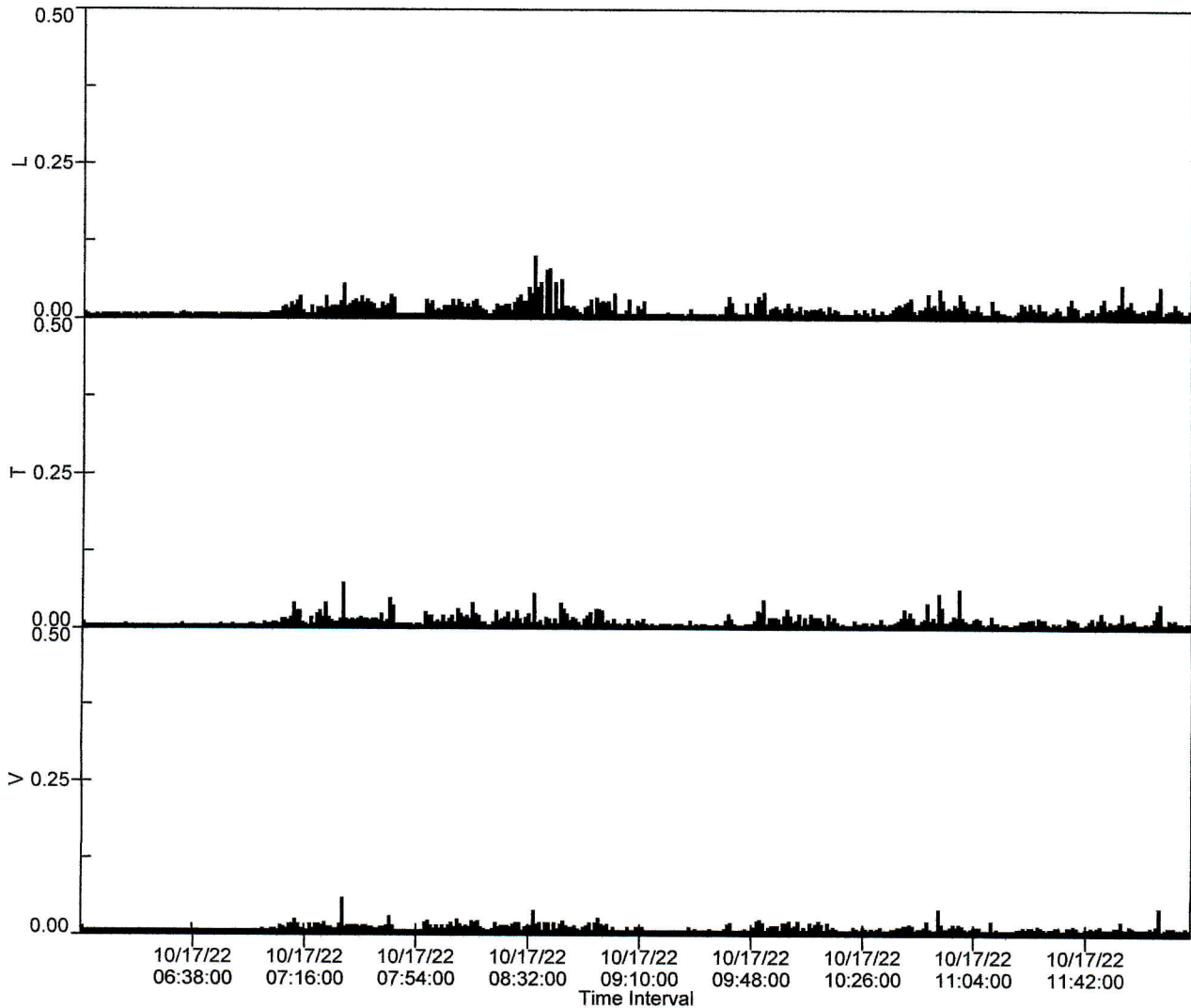
Recording Time: 377 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 151

Record Max PPV: 0.100 in/s Record Max DB: 94 db



SN: 3733 v3.22
Date: 10/23/2022 **Time:** 06:01:00
Event: 157
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)	0.015	0.010	0.013
FREQ (Hz)	500.0	15.6	55.6
Peak Air Pressure:	86 db		

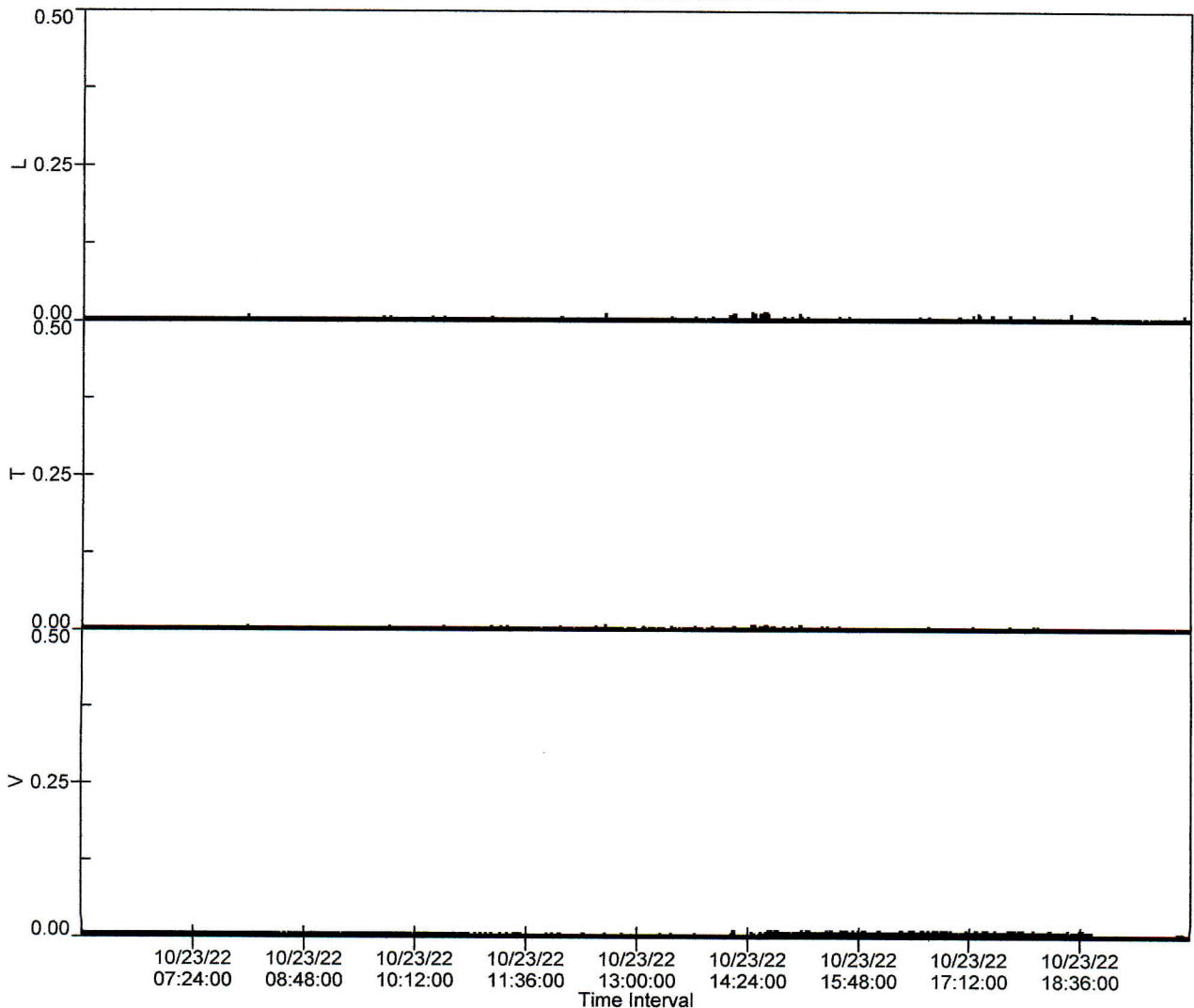
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 157

Record Max PPV: 0.015 in/s Record Max DB: 86 db



SN: 3647 v2.75
Date: 10/10/2022 **Time:** 10:46:00
Event: 144
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

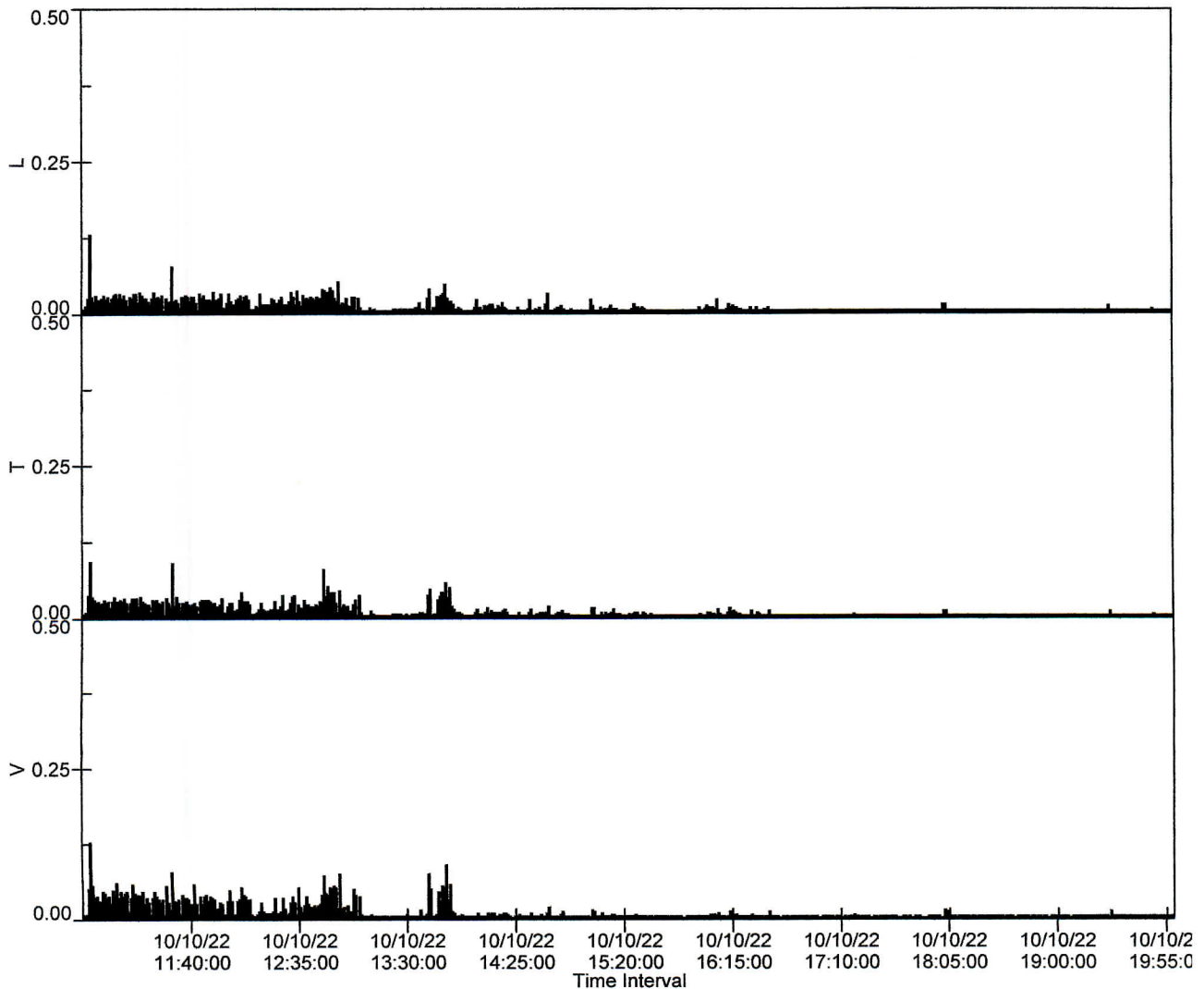
	L	T	V
PPV (in/s)	0.130	0.093	0.128
FREQ (Hz)	27.8	35.7	25.0
Peak Air Pressure:	103 db		
Recording Time:	553 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 144

Record Max PPV: 0.130 in/s Record Max DB: 103 db



SN: 3647 v2.75
Date: 10/11/2022 **Time:** 06:01:00
Event: 145
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

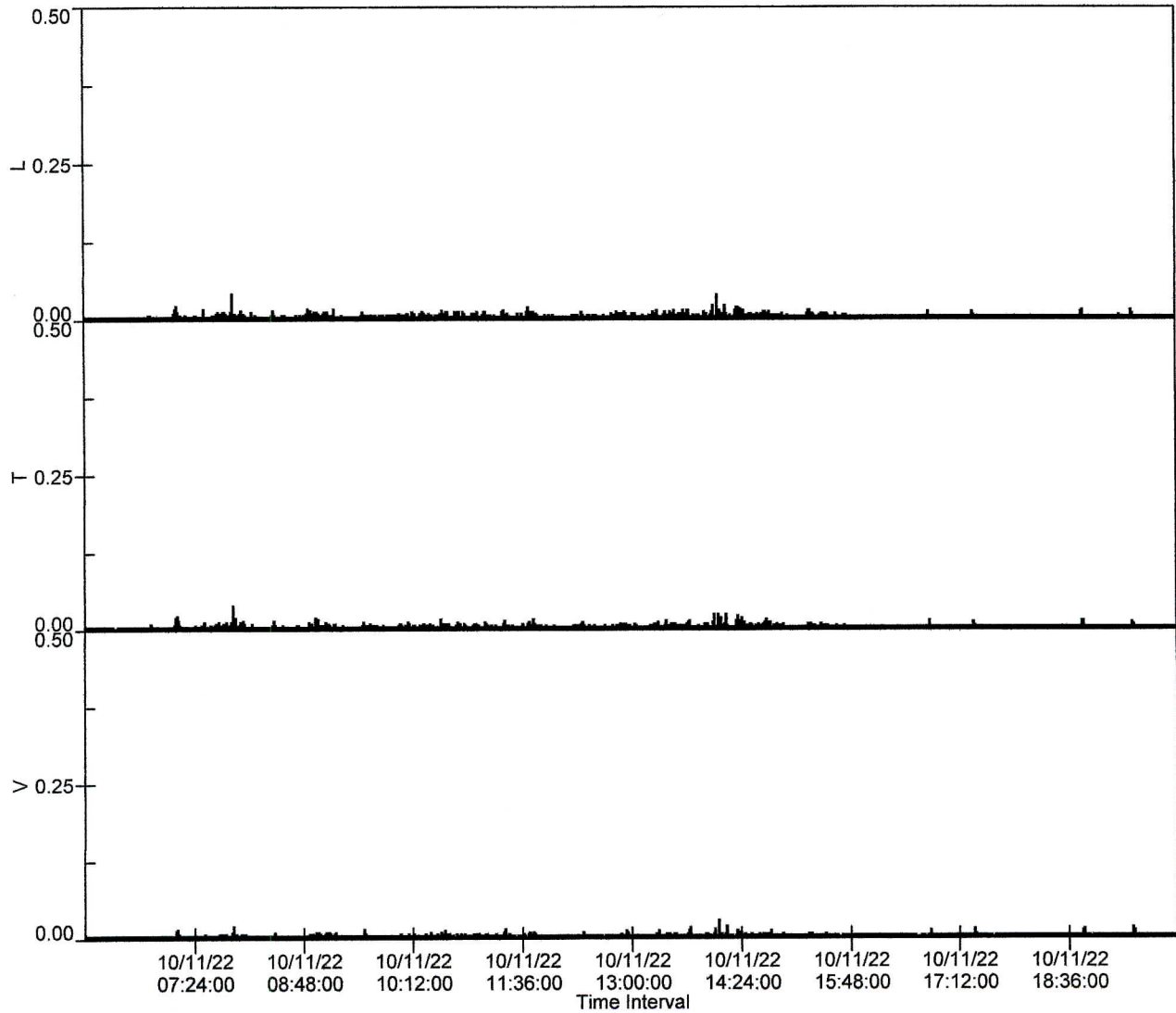
	L	T	V
PPV (in/s)	0.043	0.040	0.030
FREQ (Hz)	12.5	10.9	100.0
Peak Air Pressure: 101 db			
Recording Time: 838 minutes			
Sample Size: 1440			
Interval Size: 60 seconds			

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: 145

Record Max PPV: 0.043 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/13/2022 **Time:** 06:01:00
Event: 147
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)	0.055	0.030	0.030
FREQ (Hz)	166.7	11.4	10.6
Peak Air Pressure:	103 db		

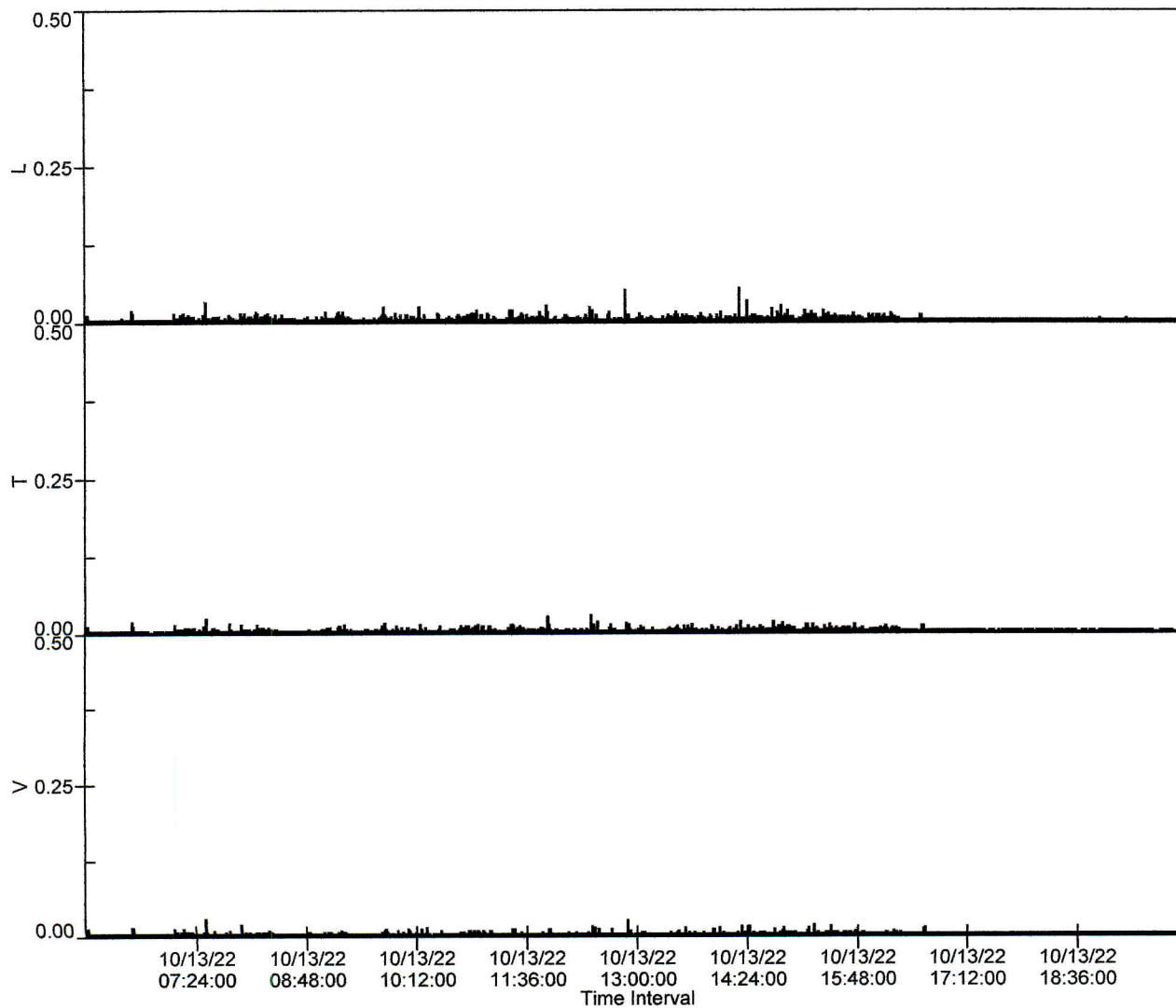
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 147

Record Max PPV: 0.055 in/s Record Max DB: 103 db



SN: 3647 v2.75
Date: 10/14/2022 **Time:** 06:01:00
Event: 148
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)	0.080	0.048	0.038
FREQ (Hz)	166.7	12.2	55.6
Peak Air Pressure:	105 db		

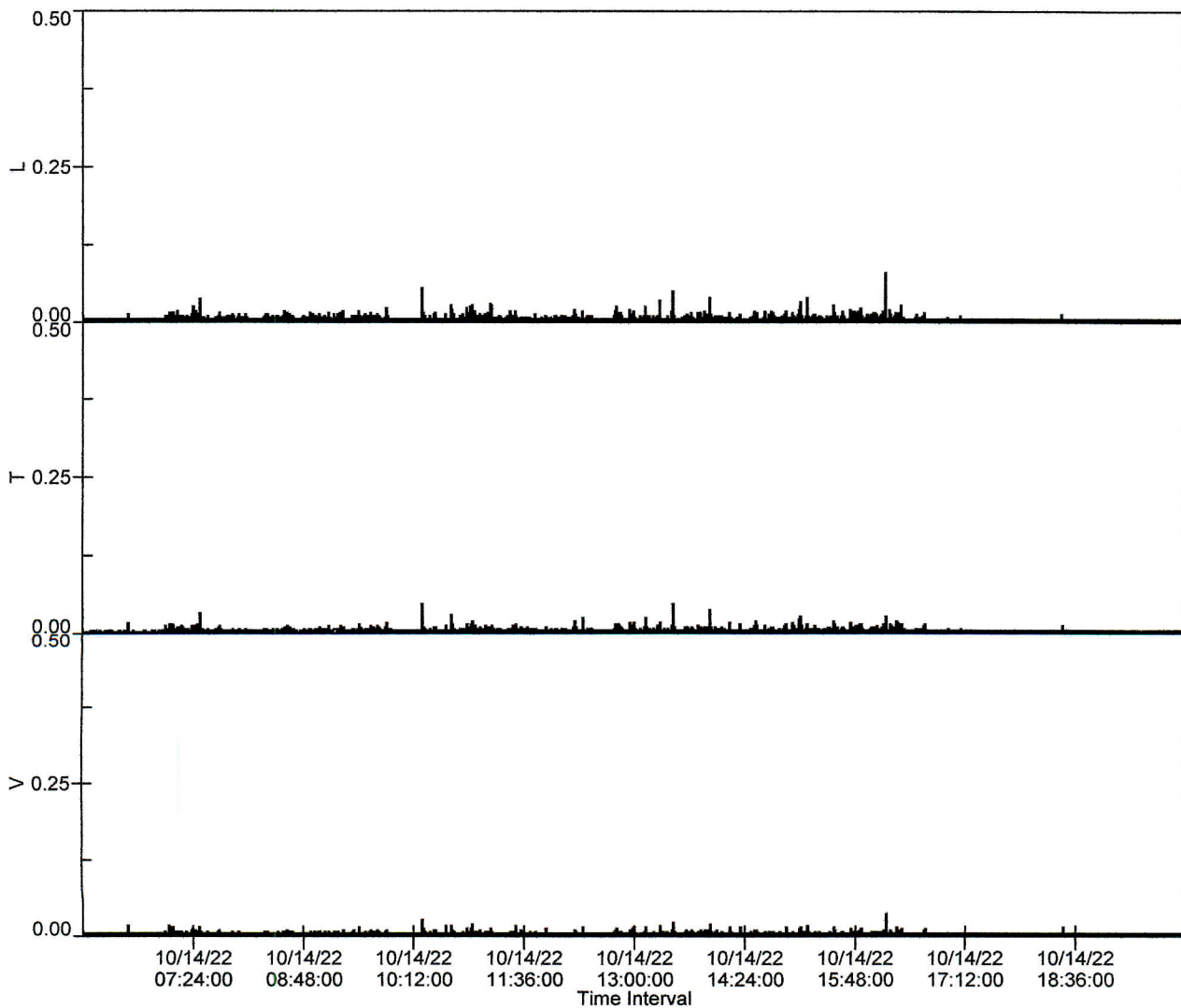
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 148

Record Max PPV: 0.080 in/s Record Max DB: 105 db



SN: 3647 v2.75
Date: 10/15/2022 **Time:** 06:01:00
Event: 149
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)	0.073	0.040	0.038
FREQ (Hz)	125.0	13.9	10.4
Peak Air Pressure:	102 db		

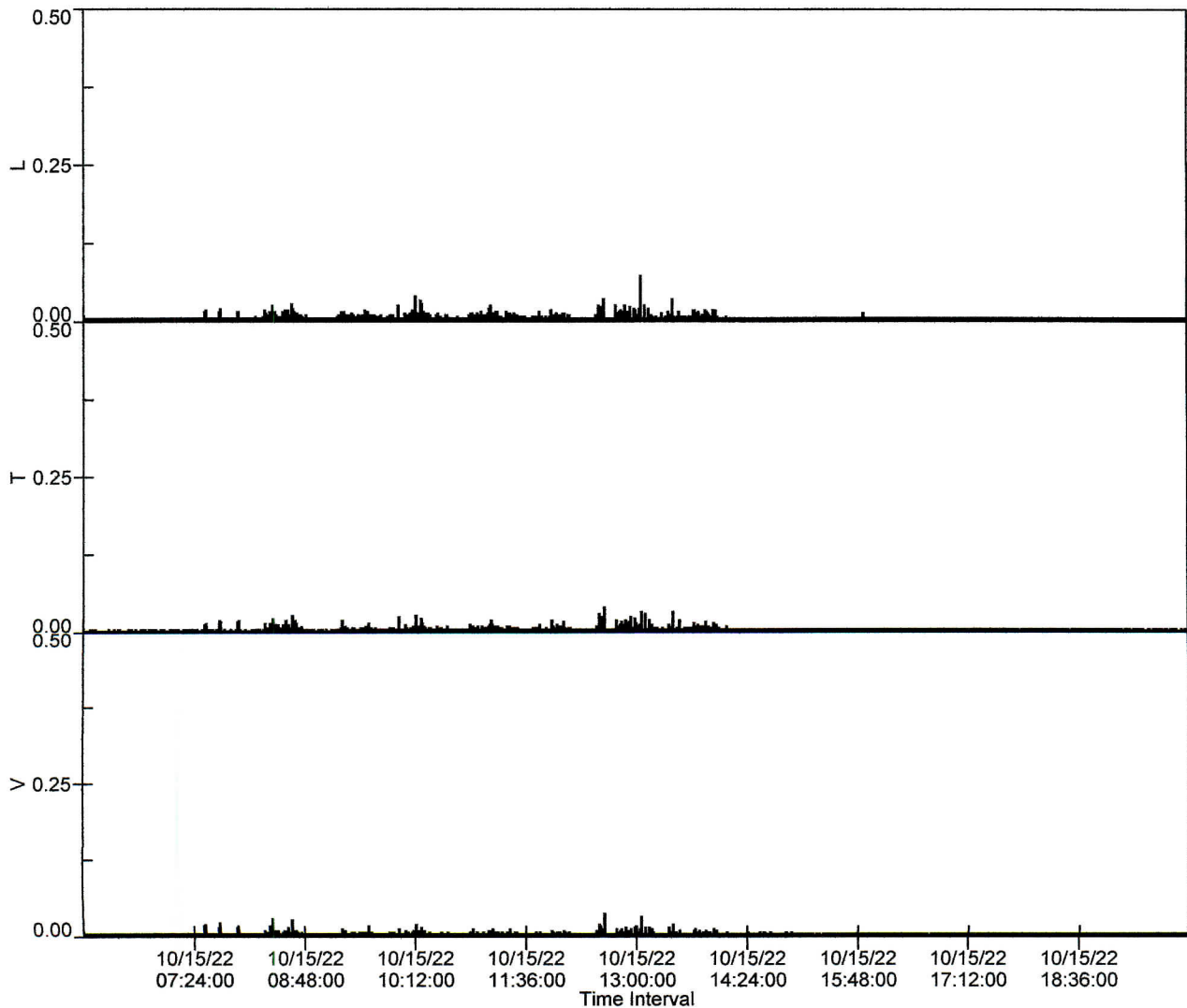
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 149

Record Max PPV: 0.073 in/s Record Max DB: 102 db



SN: 3647 v2.75
Date: 10/16/2022 **Time:** 06:01:00
Event: 150
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	0.020	0.020
FREQ (Hz)	166.7	166.7	166.7
Peak Air Pressure:	101 db		

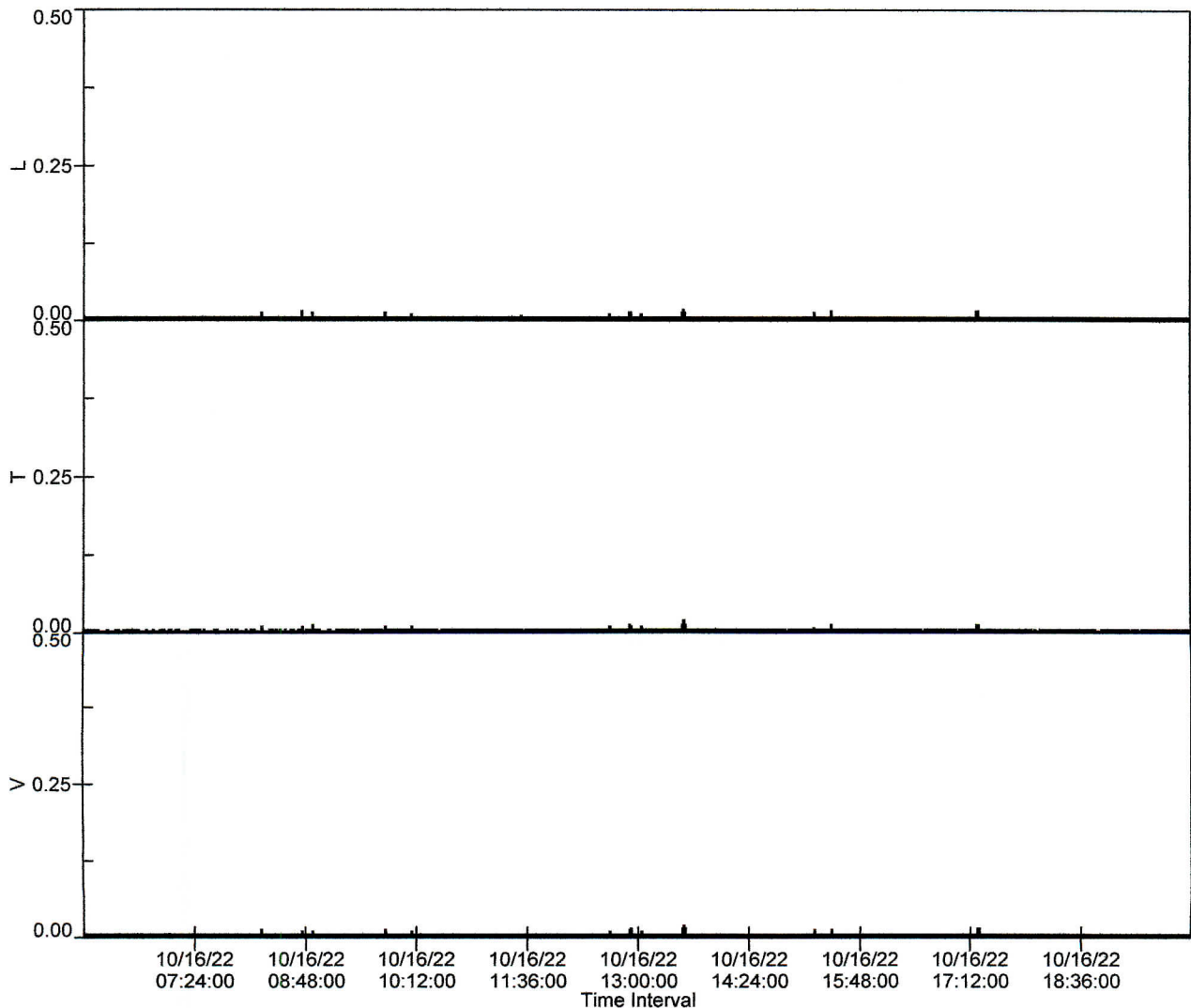
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 150

Record Max PPV: 0.020 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/17/2022 **Time:** 06:01:00
Event: 151
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)	0.083	0.055	0.045
FREQ (Hz)	166.7	166.7	100.0
Peak Air Pressure:	95 db		

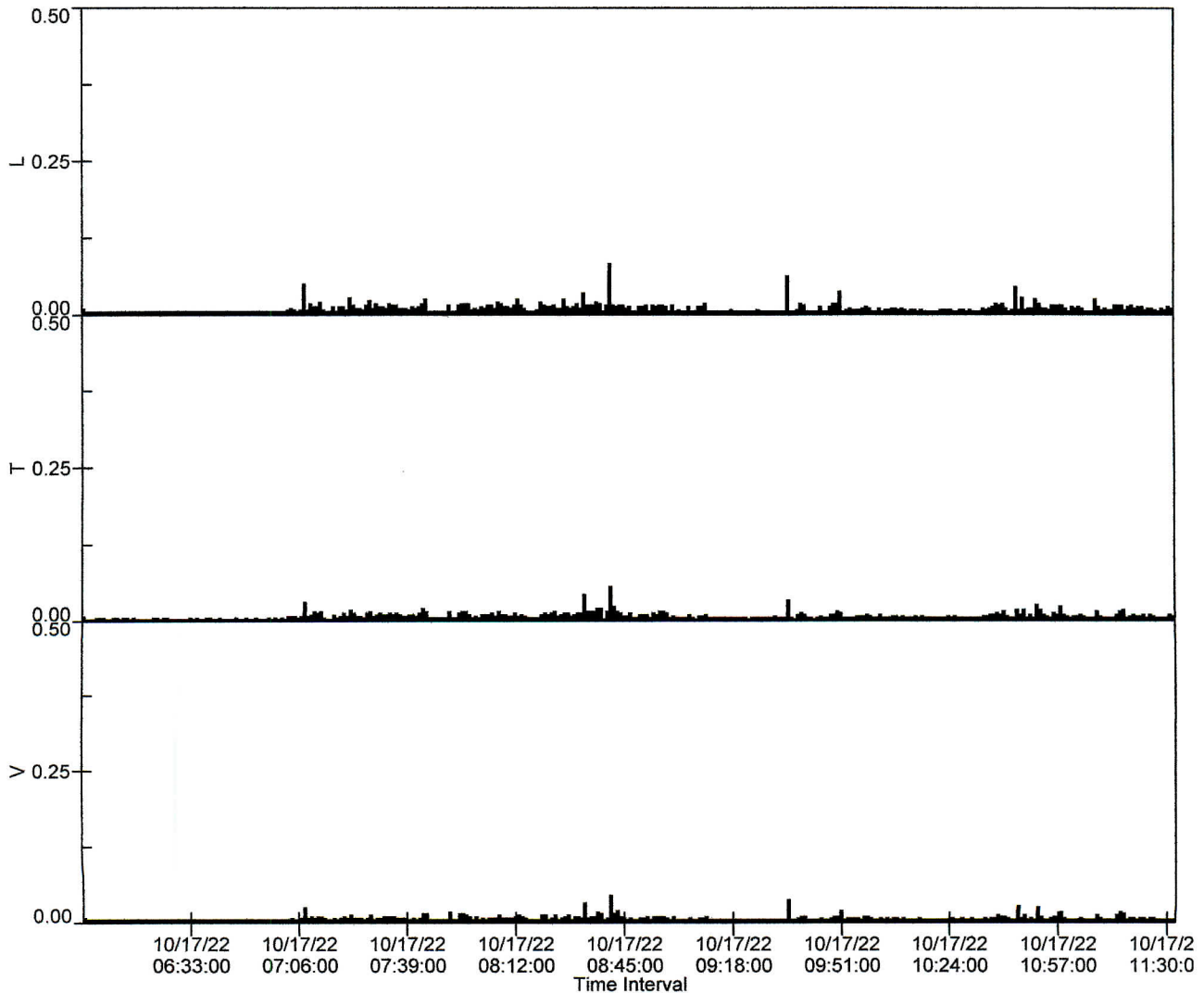
Recording Time: 332 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 151

Record Max PPV: 0.083 in/s Record Max DB: 95 db



SN: 3647 v2.75
Date: 10/17/2022 **Time:** 11:42:00
Event: 152
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)	0.055	0.050	0.035
FREQ (Hz)	11.6	12.5	10.4
Peak Air Pressure:	95 db		

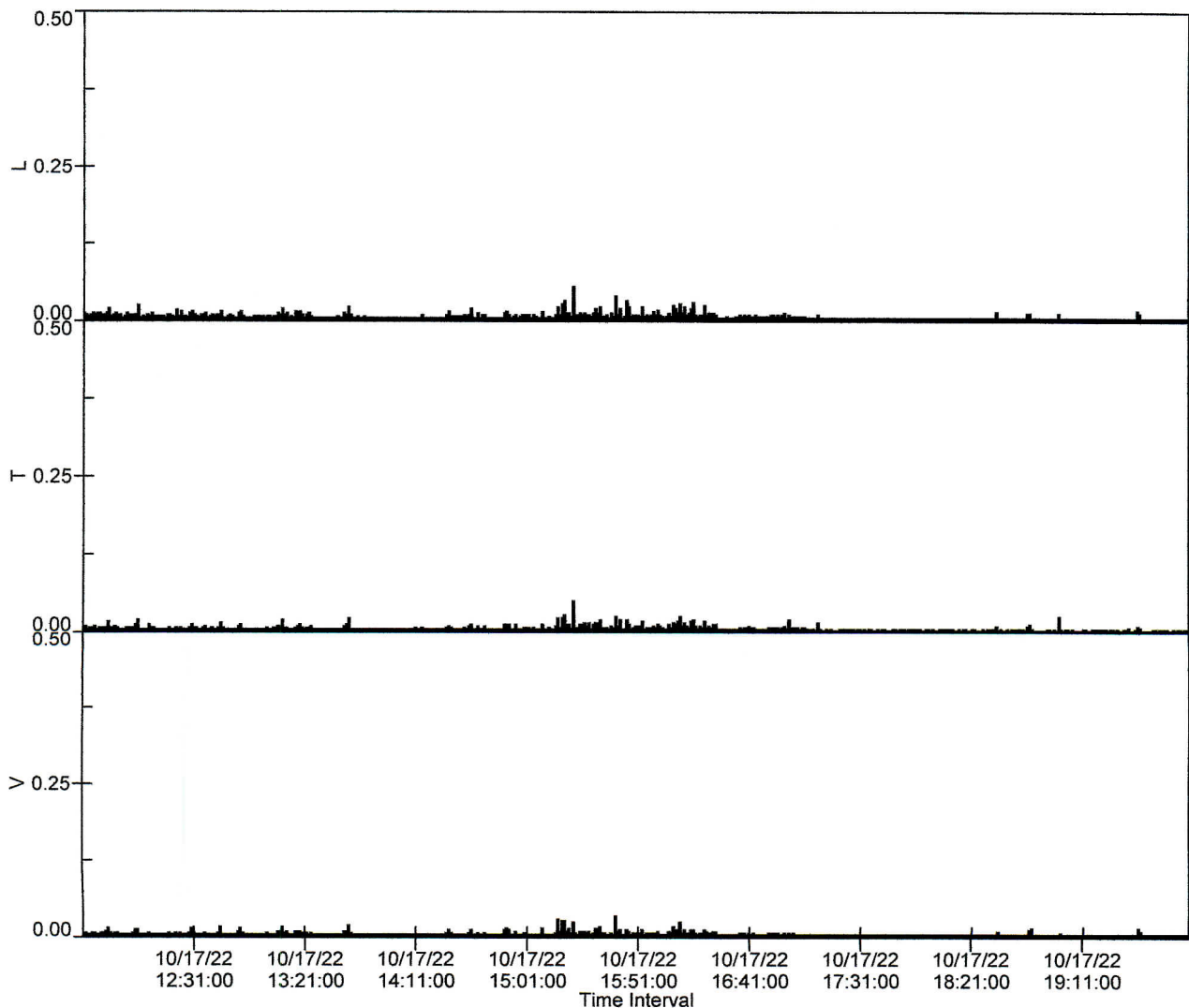
Recording Time: 497 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 152

Record Max PPV: 0.055 in/s Record Max DB: 95 db



SN: 3647 v2.75
Date: 10/18/2022 **Time:** 06:01:00
Event: 153
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	0.045	0.038
FREQ (Hz)	10.4	12.2	8.8
Peak Air Pressure:	101 db		

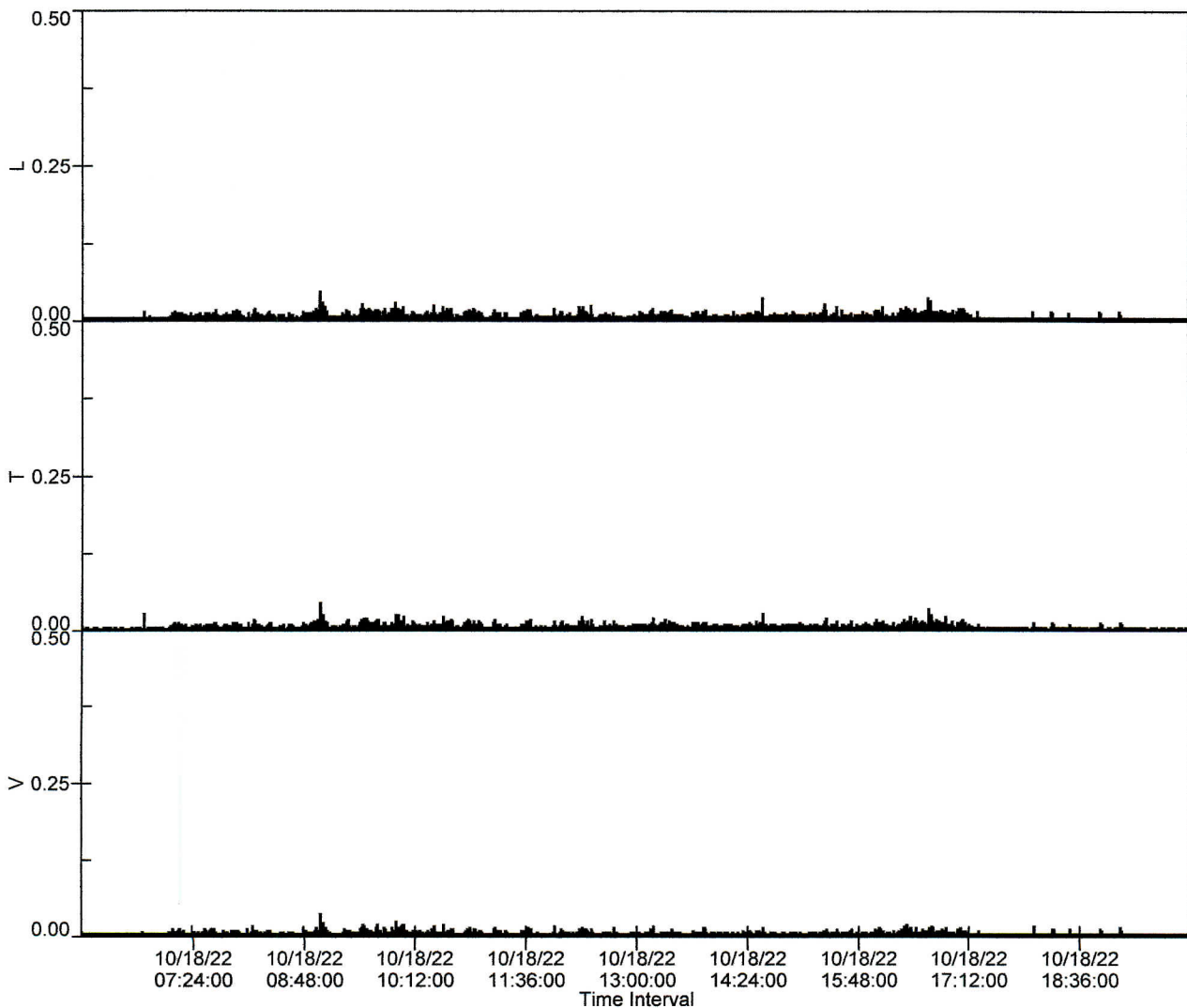
Recording Time: 838 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 153

Record Max PPV: 0.048 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/19/2022 **Time:** 06:01:00
Event: 154
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

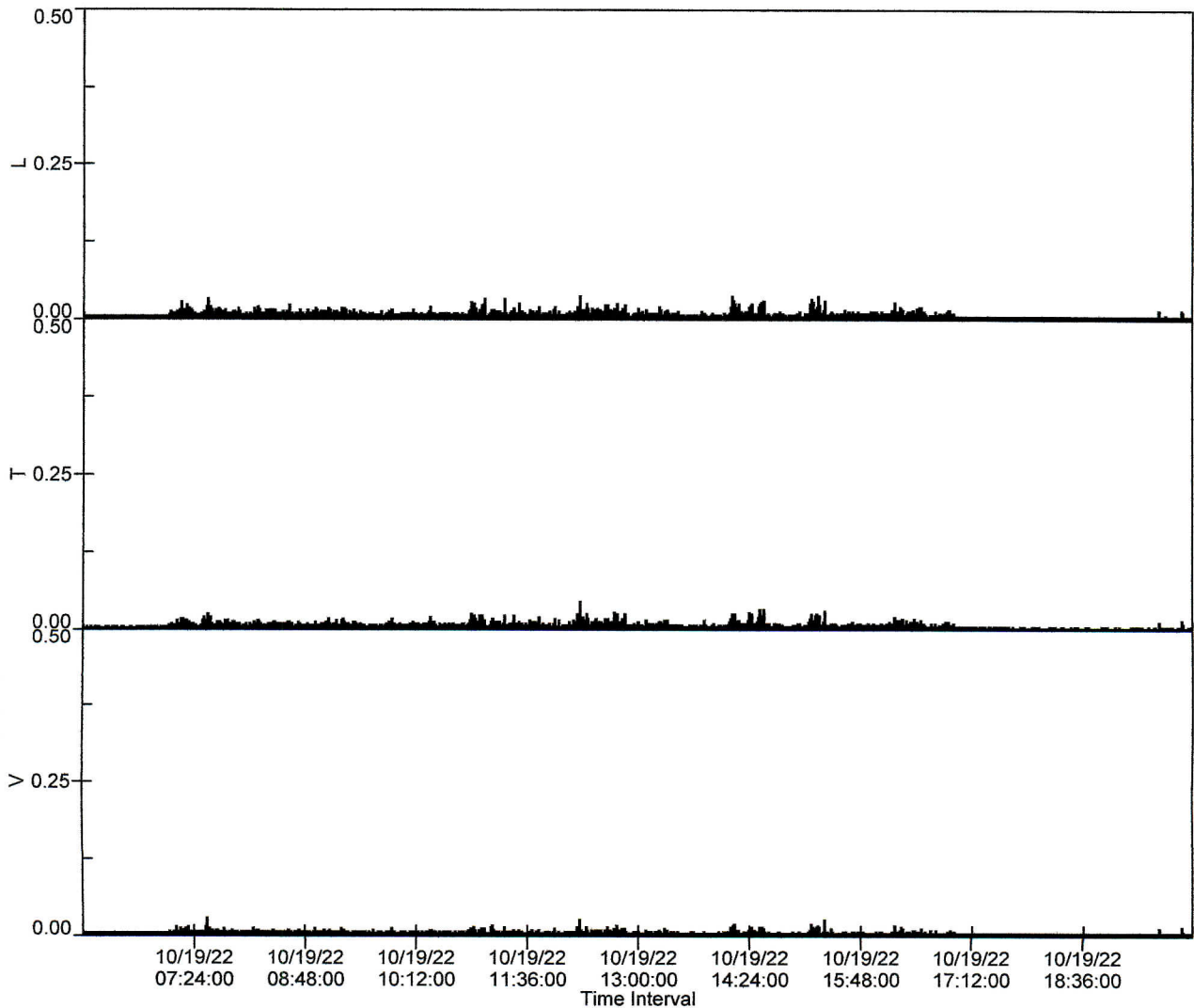
	L	T	V
PPV (in/s)	0.038	0.045	0.030
FREQ (Hz)	11.1	11.4	10.4
Peak Air Pressure: 100 db			
Recording Time: 838 minutes			
Sample Size: 1440			
Interval Size: 60 seconds			

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: 154

Record Max PPV: 0.045 in/s Record Max DB: 100 db



SN: 3647 v2.75
Date: 10/20/2022 **Time:** 06:01:00
Event: 155
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

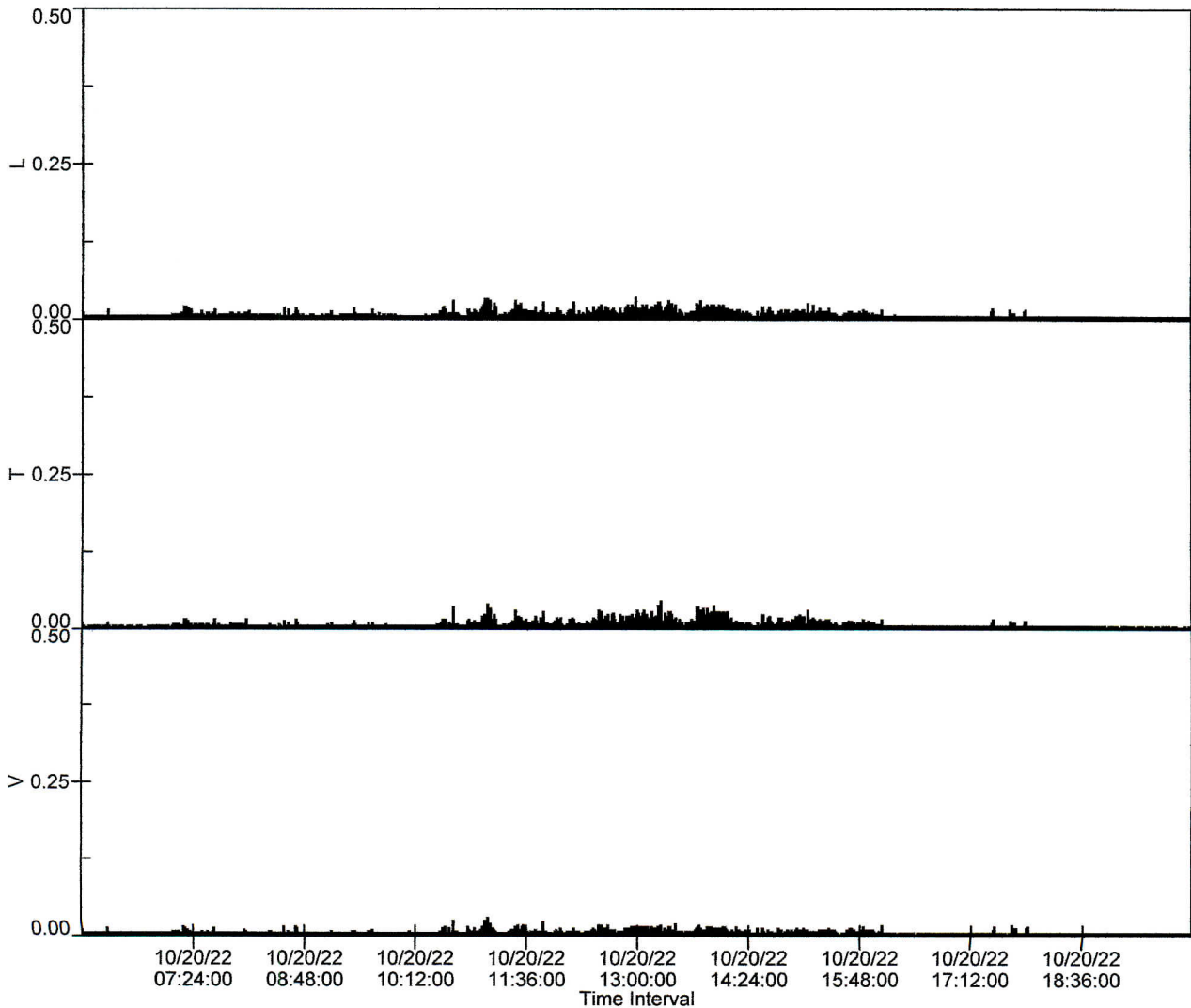
	L	T	V
PPV (in/s)	0.035	0.045	0.030
FREQ (Hz)	17.2	12.2	11.4
Peak Air Pressure:	103 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 155

Record Max PPV: 0.045 in/s Record Max DB: 103 db



SN: 3647 v2.75
Date: 10/21/2022 **Time:** 06:01:00
Event: 156
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

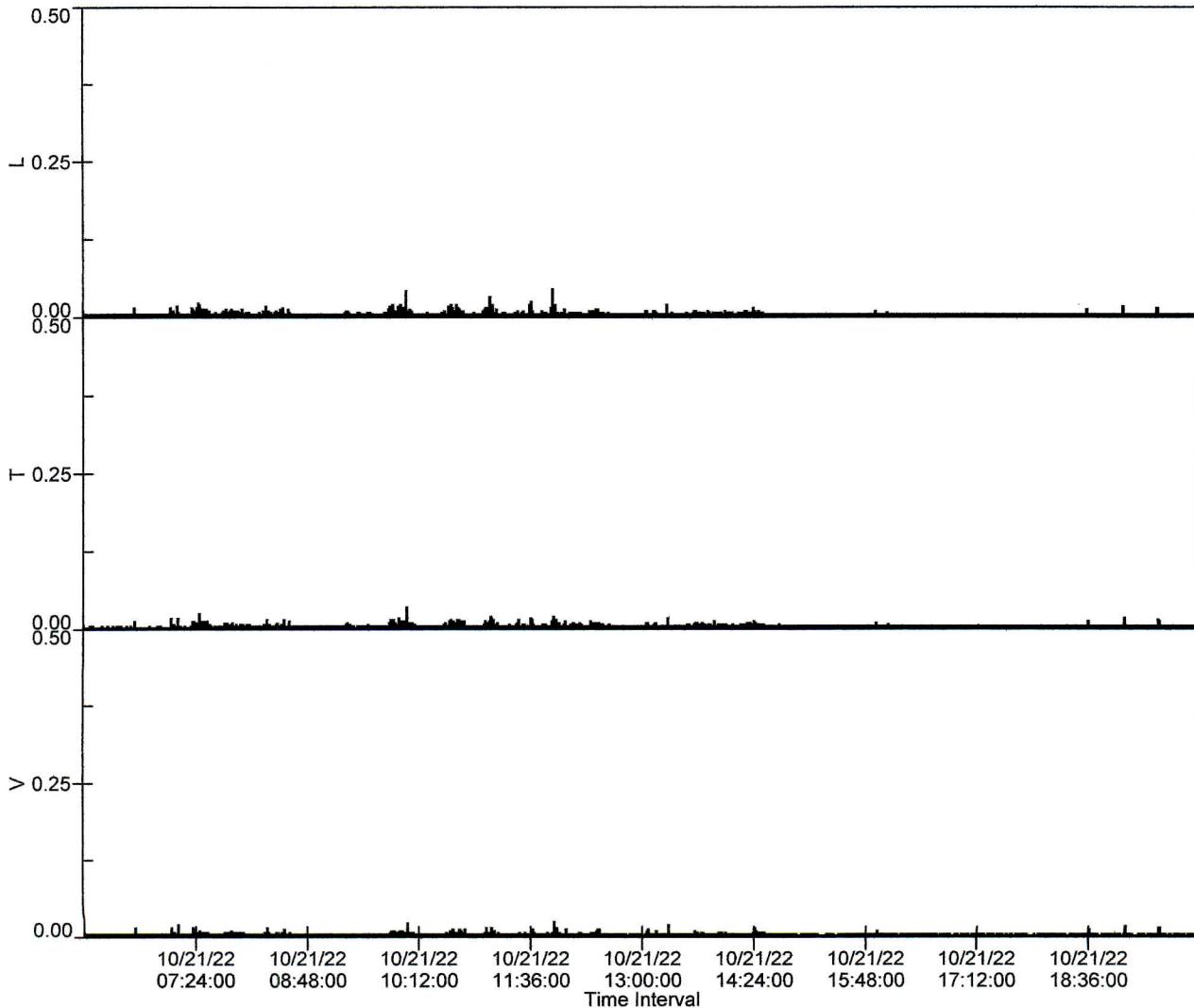
	L	T	V
PPV (in/s)	0.045	0.035	0.025
FREQ (Hz)	100.0	8.8	62.5
Peak Air Pressure:	105 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 156

Record Max PPV: 0.045 in/s Record Max DB: 105 db



SN: 3647 v2.75
Date: 10/22/2022 **Time:** 06:01:00
Event: 157
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

**Continuous Monitor Recording
Summary Data**

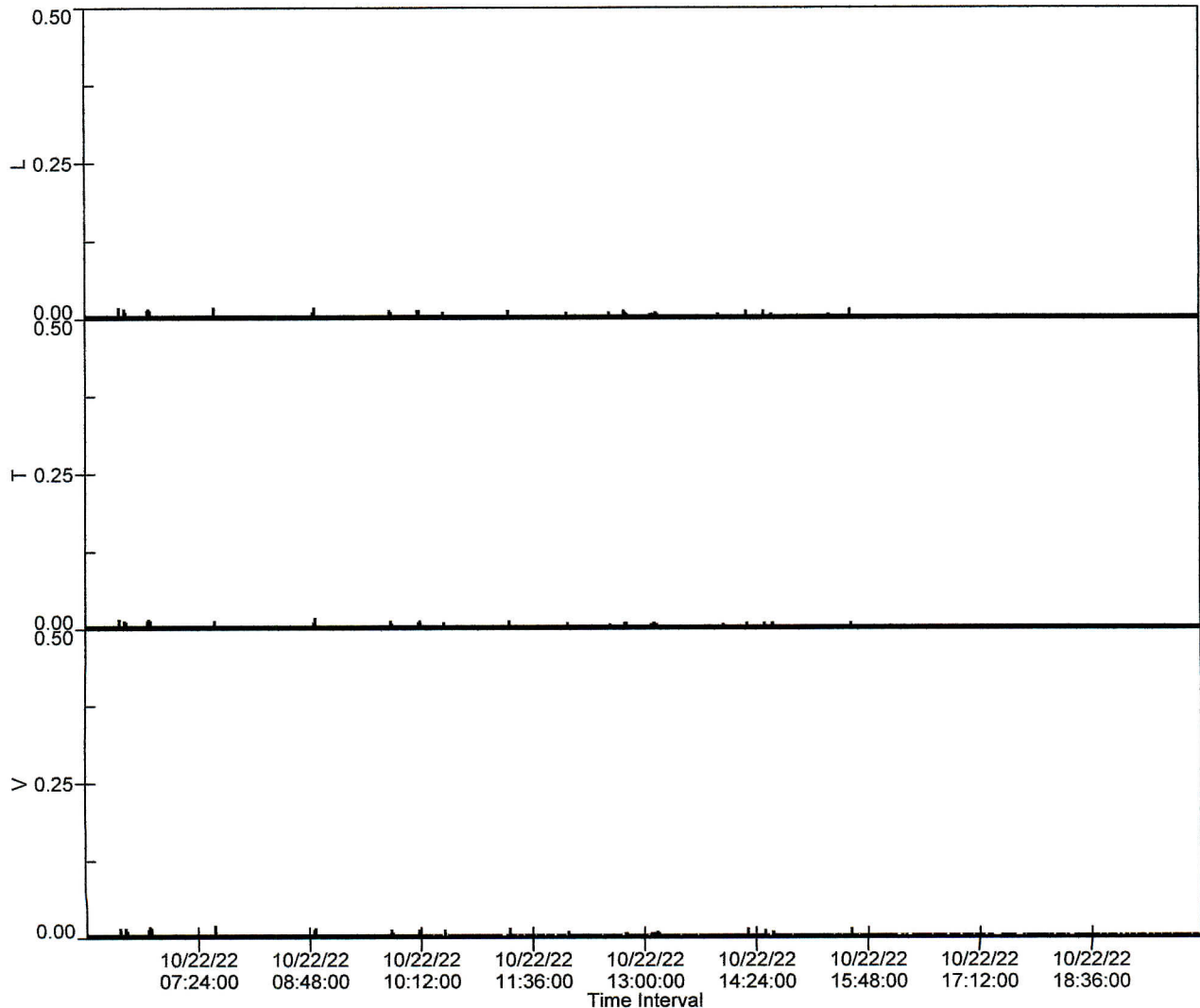
	L	T	V
PPV (in/s)	0.018	0.018	0.020
FREQ (Hz)	166.7	166.7	500.0
Peak Air Pressure:	101 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 157

Record Max PPV: 0.020 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/23/2022 **Time:** 06:01:00
Event: 158
Client: BERGER
Operation: CONSTRUCTION
Location: THORNWOOD PARK
Distance: 25.
Operator: CTI INC
Comment: E SIDE COLGATE ST

Continuous Monitor Recording

Summary Data

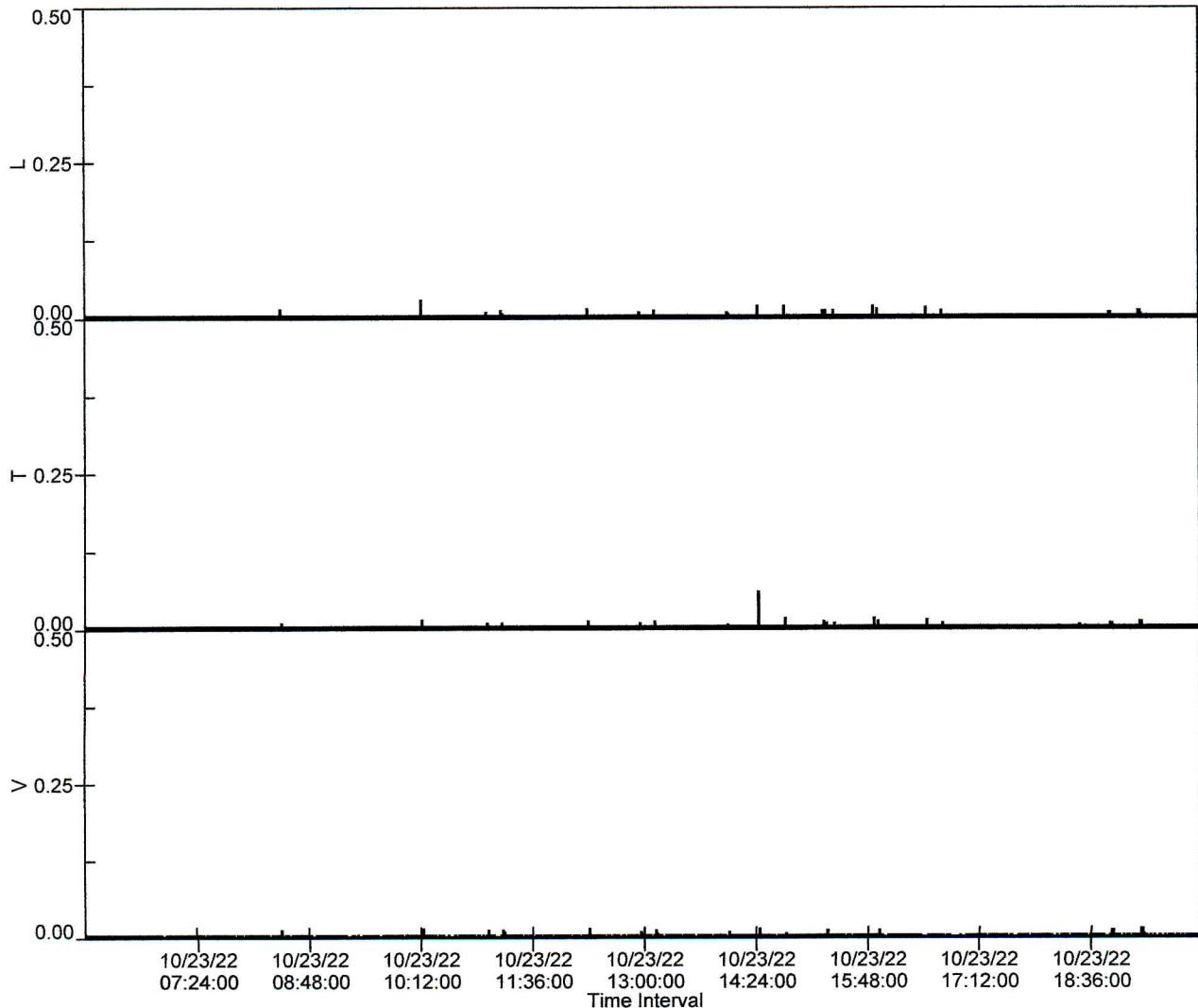
	L	T	V
PPV (in/s)	0.030	0.060	0.015
FREQ (Hz)	100.0	55.6	71.4
Peak Air Pressure:	101 db		
Recording Time:	838 minutes		
Sample Size:	1440		
Interval Size:	60 seconds		

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: 158

Record Max PPV: 0.060 in/s Record Max DB: 101 db



SN: 3647 v2.75
Date: 10/24/2022 **Time:** 06:01:00
Event: 159
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)	500.0	166.7	250.0
Peak Air Pressure: 101 db			

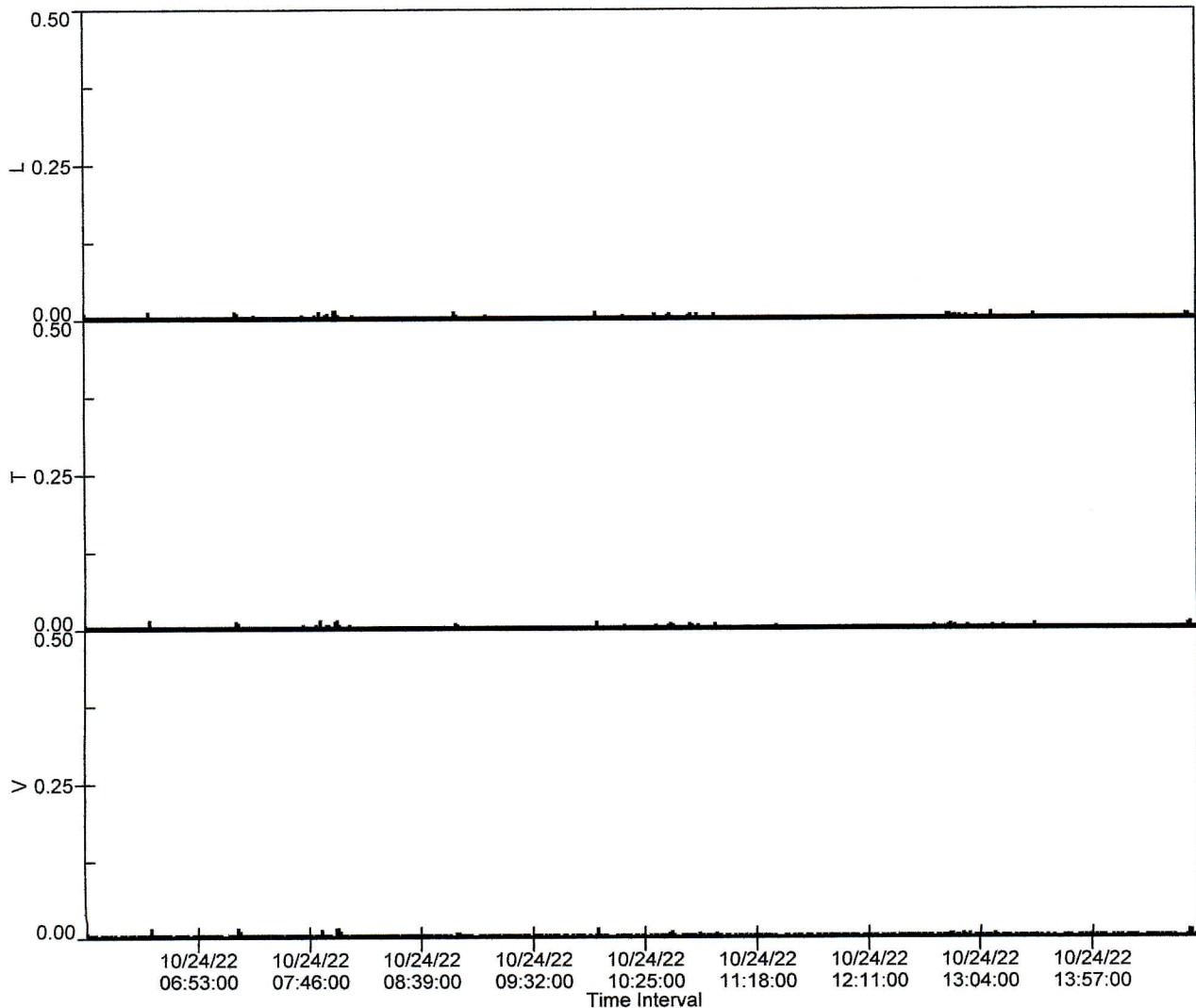
Recording Time: 527 minutes
Sample Size: 1440
Interval Size: 60 seconds

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: 159

Record Max PPV: 0.015 in/s Record Max DB: 101 db



SN: 3734 v3.22
Date: 10/24/2022 **Time:** 06:01:00
Event: 159
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	0.038	0.023
FREQ (Hz)	31.3	26.3	25.0
Peak Air Pressure:	94 db		
Recording Time:	517 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: 159

Record Max PPV: 0.038 in/s Record Max DB: 94 db

