

CITY OF FRANKLIN  
QUARRY MONITORING COMMITTEE\*  
MEETING AGENDA

Franklin City Hall, **Council Chambers**  
9229 West Loomis Road, Franklin, Wisconsin 53132  
Tuesday, November 29, 2022, 6:00 p.m.

- I. Call to Order, Roll Call and Pledge of Allegiance
- II. Approval of Minutes
  - a. Regular meeting of September 27, 2022.
- III. Citizen Comment Period  
PLEASE NOTE: Each speaker may need to be limited to three minutes, allowing everyone who wishes the opportunity to speak.
- IV. Hearings
- V. Business (Action may be taken on any item)
  - a. Quarterly presentation by Stantec Consulting Services, Inc., 3rd quarter of calendar year 2022 (July, August and September).
  - b. Review and discussion on matters pertaining to citizen complaints, blasting data from Payne & Dolan.
  - c. Quarry monitoring scope of services for calendar year 2023 by Stantec Consulting Services, Inc.
- VI. Meeting scheduling discussion
- VII. Adjournment

*\* Notice is given that a majority of the Common Council may attend this meeting to gather information about an agenda item over which the Common Council has decision-making responsibility. This may constitute a meeting of the Common Council per State ex rel. Badke v. Greendale Village Board, even though the Common Council will not take formal action at this meeting.*

*Notice is further given that upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information, please contact the Franklin City Clerk's office at (414) 425-7500.*

**City of Franklin**  
**Quarry Monitoring Committee Meeting**  
**Council Chambers, Franklin City Hall**  
**6:00 PM**  
**September 27, 2022**  
**Minutes**

unapproved

**I. CALL TO ORDER**

The September 27, 2022, Quarry Monitoring Committee meeting was called to order by Alderman Mike Barber at 6:00 p.m. in the Council Chambers at City Hall.

Alderman Mike Barber, Alderwoman Kristen Wilhelm, members Jon TenHaken, Edward Pings and Dina Swanson (non-voting) were present. Absent was member Bryan Maersch. Also present were Principal Planner Régulo Martínez-Montilva and Clint Weninger of Payne & Dolan.

**II. APPROVAL OF MINUTES**

a. Regular meeting of July 26, 2022

Member Pings moved and member TenHaken seconded to approve the minutes as presented. On voice vote, all present voted 'aye'; the vote was 4-1-0, motion carried.

**III. CITIZEN COMMENT PERIOD**

Citizen comment period opened at 6:01 p.m. and closed at 6:07 p.m.

**IV. HEARINGS**

No Hearings.

**V. BUSINESS**

a. Review and discussion on matters pertaining to citizen complaints, blasting data from Payne & Dolan and Stantec (the City's consultant).

No action taken.

b. Discussion about complaint process and identification.

No action taken

**VI. SCHEDULE NEXT MEETING**

Next meeting scheduled for November 22, 2022, based on quorum.

**VII. ADJOURNMENT**

Member Pings moved and Alderwoman Wilhelm seconded to adjourn the September 27, 2022 Quarry Monitoring Committee meeting at 6:42 p.m.. All present voted 'aye'; motion carried.



**Stantec Consulting Services Inc.**  
1165 Scheuring Road  
De Pere, Wisconsin 54115  
Tel: (920) 592-8400  
Fax: (920) 592-8444

November 9, 2022

Regulo Martínez-Montilva  
Principal Planner - Department of City Development  
City of Franklin  
9229 W. Loomis Road  
Franklin, Wisconsin 53132  
[HEddy@franklinwi.gov](mailto:HEddy@franklinwi.gov)

**Reference: City of Franklin, WI – Franklin Aggregates Quarry Monitoring Summary**  
**Period: 3rd Quarter 2022**  
**Stantec Project: 193707487**

Dear Mr. Martínez-Montilva:

The enclosed information summarizes monitoring activities completed during the third quarter of 2022 by Stantec Consulting Services Inc. (Stantec) pertaining to the Franklin Aggregates, Inc. quarry (owned by Payne & Dolan, Inc.) located at 6211 W. Rawson Avenue, Franklin, Wisconsin (the Quarry). Stantec was retained by the City of Franklin to conduct a combination of direct observation (visual) monitoring, seismic monitoring of the quarry operations, and evaluation of citizen complaints. Separate description of services and project background are provided in Attachments A and B, respectively. This letter summarizes the results.

### **Direct Observation (Visual) Monitoring**

Copies of completed observation forms are prepared and posted to the project Teams site for review by City representatives. Copies of individual reports are not provided with this summary report.

Four observation events were completed during the monitoring period; three were unannounced inspections (July 25, August 4, and September 14) and were limited to the perimeter of the quarry. One was an announced inspection that included observations inside the quarry (August 24). During all four visits, minimal to no dust was observed on Rawson Avenue from trucks that were departing the site. Significant amounts of dirt or stone were not observed in Rawson Avenue. The street sweeper was observed operating on Rawson Avenue on two of the inspections. No noticeable dust or debris was observed on other roads surrounding the quarry.

### **Seismic Monitoring**

As contracted by the City, Stantec provided remote vibration monitoring using two seismographs co-located with two existing Payne & Dolan (Vibra-Tech) monitors at 7301 S. 51st Street (VT1 and S1) and 5800 W. Allwood Drive (VT4 and S2). The monitoring provides continuous (24/7) remote monitoring. Payne & Dolan also has monitors at 7526 S. 51st Street (VT2) and southeast of the quarry (VT3). Summaries of blasting data, comparing the Payne & Dolan unit recordings to the Stantec (Sauls Seismic) unit recordings, were prepared for the quarter, and are presented in Attachment C. Figure 1 illustrates the locations of the blasts in the quarter.

Highlights of the seismic data include the following:

- Between July 1 and September 30, 2022, a total of 26 blasting events occurred. 24 of 26 (92.3%) of these blasts were confirmed by the Stantec monitors.
- Per the Planned Development District agreements (PDD), 85% of the quarry's blasts within any calendar year must be below the maximum permissible vibration (of 0.30 inches per second (in/sec), measured at the closest residence or inhabited structure not owned or controlled by the quarry. This is more stringent than State of Wisconsin regulations which require quarry operators

to report any ground vibration levels to the Wisconsin Department of Natural Resources that are above 0.75 in/sec.

- None of the blasting events measured by Payne & Dolan or Stantec had a vibration greater than 0.30 in/sec; thus 100% of the quarry's blasts were below this level. This is in conformance with the PDD.
- Per the PDD, airblast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year, measured at the residence or inhabited structure closest to the site of the blast which is not owned or controlled by the Operator. Notwithstanding any other provision in this subsection, the Operator shall not exceed the airblast limitation imposed by Wis. Adm. Code, SPS Ch. 307.
  - None of the blasting events measured by Payne & Dolan or Stantec had an air overpressure (AO) greater than 123dB; thus 100% of the quarry's blasts this quarter were below this level. This is in conformance with the PDD.
  - There have been 65 blasts through the third quarter of 2022. One blast in first quarter had an AO over 123dB. For 2022 year to date, 98.4% of the blasts have been under 123dB, which is in conformance with the PDD.
- The corresponding blast data measured by Stantec with the Sauls Seismic monitors generally aligned with the readings at each Payne & Dolan sponsored Vibra-Tech monitors. There were some larger differences in the AO readings. It should be noted that in addition to the fact the monitors are produced by different manufacturers, there are a variety of variables that can influence actual PPV readings. The Sauls Seismic monitors were recalibrated on October 21, 2021; calibration is typically completed annually.
- In general, the largest blast readings at each monitor appear to correlate with the proximity of the nearest adjacent blast location.

### **Blast Complaint Evaluation**

A compilation of all blast events and complaints received by Stantec for the period July 1 through September 30, 2022, is provided as Attachment C. Although not applicable for this quarter, note that Attachment C does not provide the actual complainant details (name, address, and phone number) if known; it was decided to have this information remain confidential in this report. However, complainant identity may be released upon public records request to the City of Franklin. The locations of all blasts and complaints are shown on Figure 1. The following highlights the results of the complaint evaluation:

#### **Complaints - General**

- 3 complaints (formally submitted) – total
- 1 complaint (informally submitted, e.g., phone call)
- 0 complaints – regarding noise
- 0 complaints – regarding dust
- 0 complaints – miscellaneous
- 3 complaints – regarding vibration

#### **Complaints – Blast Related**

- 4 complaints – corresponding to actual blast events (informal complaint did not list a time, but was on a day of a blast)
- 0 complaints – not corresponding to actual blast events
- 4 complaints – complainant location identified

- 4 household that complained once
- 0 households that complained two times each
- 0 complaints – no name and address provided (requested confidentiality)

Complaints (non-anonymous; confirmed blast related) - Locations

- 1 complaint – east of 51<sup>st</sup> Street
- 3 complaints – south of Drexel Avenue
- 0 complaints – west of Root River

Blast Events

- 26 blast events - during monitoring period 2Q2022 (shot numbers 40 through 65)
- 3 blast events - corresponding to complaints
  - 0 weather: rain
  - 2 weather: haze, partly to mostly cloudy, or cloudy
  - 1 weather: clear, fair, or scattered clouds
  - 2 time: prior to 12:00 pm (noon)
  - 1 time: after 12:00 pm
- 2 blast events with one complaint
- 1 blast event with two complaints

Quarry Blast Locations Producing Complaints

- 2 southern area of quarry
- 0 central area of quarry
- 1 northern area of quarry

Upon review of these results outlined above, on Figure 1, and in Attachment C, the following observations are made:

- Very few, if any, quarry operational complaints are made regarding dust or truck traffic. Most complaints focus on quarry blasting and resulting ground vibrations.
- Most of the complaints (75%) in this quarter originate from residences south of Drexel Avenue; these blasts were in the southern portion of the quarry.
- One blast in the northern area of the quarry resulted in a complaint from east of South 51<sup>st</sup> Street.
- No blast this quarter had more than two complaints.
- No complaints came from west of the Root River.
- Due to increased number of employees now working from home, residents may have been at home more during the day than in years prior to 2020. However, this is essentially the “new normal”.



November 9, 2022

Page 4 of 4

Reference: City of Franklin, WI – Franklin Aggregates Quarry Monitoring Summary Period: 3Q2022

Please feel free to contact Mike Roznowski at 920-278-3200 or [mike.roznowski@stantec.com](mailto:mike.roznowski@stantec.com); or Kristen Gunderson-Inden at 262-665-3447 or [kristen.gunderson-inden@stantec.com](mailto:kristen.gunderson-inden@stantec.com) if you have any questions.

Respectfully,

**STANTEC CONSULTING SERVICES INC.**

A handwritten signature in blue ink, appearing to read 'Kristen Gunderson-Inden'.

Kristen Gunderson-Inden  
Senior Environmental Scientist

A handwritten signature in blue ink, appearing to read 'Michael B. Roznowski'.

Michael B. Roznowski, CHMM  
Senior Principal

Attachments    A - Franklin Quarry Seismic Monitoring Description of Services  
                      B - Franklin Quarry Seismic Monitoring Project Background  
                      C - Summary of Seismic Data – 3rd Quarter 2022  
                      Figure 1 - Seismic Monitoring, Blasting, and Complaint Locations, 3rd Quarter 2022

# **ATTACHMENT A**

## **FRANKLIN QUARRY SEISMIC MONITORING DESCRIPTION OF SERVICES**

## **DESCRIPTION OF SERVICES**

### **Direct Observation (Visual) Monitoring**

During 2022, Stantec will conduct a total of nine (9) qualitative site visits at the quarry to observe and document whether the site was compliant with operational parameters defined in the existing Planned Development District (PDD) agreements, and to evaluate whether the quarry's general operations are consistent with best management practices employed by other similar quarries. Site visits are a combination of announced and unannounced, but all are conducted during normal business hours. The days of the week and times of the day for the visits vary. The observations will be completed between April and October, when quarry operations are occurring, and airborne dust is more likely. Qualitative data to be collected includes the following:

- Visual observation of all aspects of the mining operation, including but not limited to:
  - Trucking operations, in particular pertaining to dust issues along Rawson Avenue
  - Operational issues that may affect local citizens in some form of adverse off-site impact
- Direct air quality observations, including:
  - General site and surrounding visual air quality, including opacity, in particular along Rawson Avenue
  - Dust control measures and issues on-site that may affect off-site receptors
  - Dust control issues directly adjacent off-site
  - Any other dust issues that may affect local citizens
- Quarry operations review (for announced visits), including:
  - Review of quarry records pertaining to dust control measures and recordkeeping, ensuring that the operator is following standard protocol to minimize off-site impacts, and evaluating how well and how quickly they respond to potential of actual off-site impact situations
  - Comparison of records to stated performance objectives and respective PDD compliance, only as they pertain to dust in general, and along Rawson Avenue in particular

The findings of each visit will be documented on a standard form previously approved by the City. The form will be filled out by hand during each site visit, and then scanned/posted to a project file transfer protocol (FTP) site for review by City representatives. Stantec also will obtain photos to document site or directly adjacent off-site conditions, and short-duration video clips (e.g., showing dust impacts). These photos and videos are also uploaded to the project FTP site.

In addition to the observations and record review, Stantec also will obtain and document on the inspection forms local meteorological conditions that were relevant to the observations (e.g., temperature, wind speed, wind direction, humidity, and precipitation).

Stantec also will notify the City Planning Manager of any condition (pertaining to air or dust monitoring, or other PDD condition) that we become aware of that exceeds the allowances outlined in the PDD. This communication will be completed prior to noon the business day following the day we become aware of any such event.

### **Seismic Monitoring**

Stantec provides remote vibration monitoring by using Nomis Seismographs. Sauls Seismic is subcontracted to operate two separate seismographs, each co-located with two existing Payne & Dolan (Vibra-Tech) monitors located at: 7301 S. 51st Street, and 5800 W. Allwood Drive. Each monitor was pole-mounted and provided with a weatherproof enclosure. Power is provided via an internal battery and an external battery connected to a solar panel. This type of configuration provides continuous (24/7) remote monitoring, allowing Stantec to have access to data anytime via the Internet.

Stantec also will notify the City Planning Manager of any condition (pertaining to blasting, noise or other PDD condition) that we become aware of that exceeded the allowances outlined in the PDD. This communication will be completed prior to noon the business day following the day we become aware of any such event.



### **Blast Complaint Evaluation**

Periodically the City forwards to Stantec specific information pertaining to quarry complaints received. Stantec evaluates each one on a quarterly basis to determine the following corresponding collaborative conditions:

- Off-site dust complaints: weather conditions (wind direction and speed) the day of the complaint
- Off-site seismic complaints: seismic data from both Stantec (if monitoring at the time) and Payne & Dolan placed monitors
- On occasion, the City may request an exceptional blast complaint evaluation if a blast event receives an unusually high number of complaints. A letter report will be issued by Stantec within approximately one week of the request that describes:
  - seismic data from both Stantec and Payne & Dolan placed monitors
  - weather conditions (wind direction and speed) the day of the complaint
  - a figure showing location of blast and complaints

## **ATTACHMENT B**

### **FRANKLIN QUARRY SEISMIC MONITORING PROJECT BACKGROUND**

## **Background Summary**

Seismic monitoring was completed to document whether the site was compliant with operational parameters defined in the existing Planned Development District (PDD) agreements. Prior to 2018, Stantec completed a variety of 2, 4, and 8-week seismic monitoring periods. During 2018, Stantec completed one 4-week period and one 16-week period of monitoring. Monitoring consisted of placing a city owned and maintained Instantel MiniMate Plus fixed seismograph equipped with an external geophone at one of two city-established blast monitoring sites or vaults for each period. Seismic data was downloaded once every two weeks. Due to equipment limitations the data could not be downloaded remotely as it occurs (i.e., real time).

In 2019, Stantec provided remote vibration monitoring by using Nomis Seismographs. Sauls Seismic was subcontracted to install two separate seismographs, each co-located with two existing Payne & Dolan (Vibra-Tech) monitors located at: 7301 S. 51st Street, and 5800 W. Allwood Drive. Each monitor was pole-mounted and provided with a weatherproof enclosure. Power was provided via an internal battery and an external battery connected to a solar panel. This type of configuration provided continuous (24/7) remote monitoring, allowing Stantec to have access to data anytime via the Internet.

As contracted by the City for 2022, Stantec is providing remote vibration monitoring using two seismographs co-located with two existing Payne & Dolan (Vibra-Tech) monitors at 7301 S. 51st Street and 5800 W. Allwood Drive. There is a chance one of these monitors may be moved to an alternate location during 2022. The monitor provided continuous (24/7) remote monitoring. Quarterly summaries of blasting data, comparing the Payne & Dolan (Vibra-Tech) unit recordings, to the Stantec (Sauls Seismic) unit recordings, will be prepared for calendar year 2022.

Per the PDD #23 and #24 Ordinances, 85% of the quarry's blasts within any calendar year must be below the maximum permissible vibration (also referred to as particle or ground velocity) of 0.30 inches per second (in/sec), measured at the closest residence or inhabited structure not owned or controlled by the quarry. This is more stringent than State of Wisconsin regulations (Wisconsin Department of Industry, Labor and Human Relations in ch.ILHR 7, Wis. Adm. Code on any blast [new reference now Wis. Adm. Code, Safety and Professional Services (SPS) Chapter 307]) which require quarry operators to report any ground vibration levels to the Wisconsin Department of Natural Resources that are above 0.75 in/sec.

Per the PDD #23 and #24 Ordinances, airblast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year, measured at the residence or inhabited structure closest to the site of the blast which is not owned or controlled by the Operator. Notwithstanding any other provision in this subsection, the Operator shall not exceed the airblast limitation imposed by Wis. Adm. Code, SPS Ch. 307.

In addition to obtaining and reviewing the blast data from the city-owned, fixed seismograph, Stantec also received data from Payne & Dolan's Vibra-Tech meters, which provided independently monitored Franklin Aggregate blasting data for the entire calendar year. Four monitors are used by Vibra-Tech, three along South 51<sup>st</sup> Street, and one just south of West Drexel Avenue. This independently monitored data was compared to the Stantec-obtained data.

# **ATTACHMENT C**

SUMMARY OF SEISMIC DATA – 3rd QUARTER 2022

Payne & Dolan Blast Monitoring Data								Stantec Blast Monitoring Data		Comparison of P&D and Stantec Monitoring Data		Complaint Information			Weather (for complaints only)								
Date	Time	Activity Number	General Quarry Blast Location	Monitor Location	Distance (feet)	PPV (in/sec)	AO (dB)	PPV (in/sec)	AO (dB)	Difference in PPV Values	Difference in AO dB Values	Com-plaints?	#	Primary direction of complaints (from quarry)	Wind Direc-tion	Wind Speed (mph)	Wind Gusts (mph)	Press-ure (in)	Humi-dity (%)	Condi-tions	Precip-itation	Temp. (°F)	
7/7/2022	11:45 AM	40	north	5800 ALLWOOD	3,385	N/D	N/D	N/D	N/D	--	--	no											
7/7/2022	11:43 AM	40	north	7301 S 51st Street	1,460	0.058	117.0	0.055	112.8	0.003	4.2												
7/7/2022	11:43 AM	40	north	7526 S. 51st Street	1596	0.083	118.0																
7/7/2022	11:43 AM	40	north	SE of Quarry	2,234	0.033	108.0																
7/12/2022	10:30 AM	41	north	5800 ALLWOOD	3,765	N/D	N/D	N/D	N/D	--	--	no											
7/12/2022	10:30 AM	41	north	7301 S 51st Street	1,130	0.103	110.0	0.103	107.8	0.001	2.2												
7/12/2022	10:30 AM	41	north	7526 S. 51st Street	1,598	0.070	116.0																
7/12/2022	10:30 AM	41	north	SE of Quarry	2,428	0.028	115.0																
7/14/2022	12:00 PM	42	north	5800 ALLWOOD	3,605	N/D	N/D	N/D	N/D	--	--	no											
7/14/2022	12:02 PM	42	north	7301 S 51st Street	1,315	0.040	110.0	0.043	107.80	-0.003	2.2												
7/14/2022	12:02 PM	42	north	7526 S. 51st Street	1,644	0.040	112.0																
7/14/2022	12:02 PM	42	north	SE of Quarry	2,383	0.025	107.0																
7/18/2022	1:23 PM	43	north	5800 ALLWOOD	3,791	N/D	N/D	N/D	N/D	--	--	no											
7/18/2022	1:23 PM	43	north	7301 S 51st Street	1,310	0.050	116.0	0.045	112.1	0.005	3.9												
7/18/2022	1:23 PM	43	north	7526 S. 51st Street	1,807	0.035	117.0																
7/18/2022	1:23 PM	43	north	SE of Quarry	2,589	0.023	110.0																
7/21/2022	10:24 AM	44	south	5800 ALLWOOD	1,186	0.035	107.0	0.055	100.8	-0.020	6.2	yes	1	south	W	10	none	29.02	49	Mostly Cloudy	none	83	
7/21/2022	10:24 AM	44	south	7301 S 51st Street	3314	N/D	N/D	N/D	N/D	--	--	no											
7/21/2022	10:24 AM	44	south	7526 S. 51st Street	2,257	0.048	110.0																
7/21/2022	10:24 AM	44	south	SE of Quarry	1,400	0.110	108.0																
7/26/2022	11:15 AM	45	north	5800 ALLWOOD	3,937	N/D	N/D	N/D	N/D	--	--												
7/26/2022	11:12 AM	45	north	7301 S 51st Street	1079	0.095	109.0	0.113	106.3	-0.018	2.7	no											
7/26/2022	11:12 AM	45	north	7526 S. 51st Street	1,707	0.048	117.0																
7/26/2022	11:15 AM	45	north	SE of Quarry	2,585	N/D	N/D																
7/29/2022	10:45 AM	46	central	5800 ALLWOOD	3,953	N/D	N/D	N/D	N/D	--	--												
7/29/2022	10:45 AM	46	central	7301 S 51st Street	1,811	0.045	118.0	0.095		-0.050	118.0	no											
7/29/2022	10:45 AM	46	central	7526 S. 51st Street	2,664	0.025	116.0																
7/29/2022	10:45 AM	46	central	SE of Quarry	1,176	N/D	N/D																
8/2/2022	11:15 AM	47	central	5800 ALLWOOD	3,572	N/D	N/D	N/D	N/D	--	--												
8/2/2022	11:17 AM	47	central	7301 S 51st Street	1,303	0.055	110.0	0.043	106.3	0.013	3.7	no											
8/2/2022	11:17 AM	47	central	7526 S. 51st Street	1,598	0.070	112.0																
8/2/2022	11:17 AM	47	central	SE of Quarry	2,333	0.038	110.0																
8/5/2022	1:10 PM	48	central	5800 ALLWOOD	3,683	N/D	N/D	N/D	N/D	--	--												
8/5/2022	1:05 PM	48	central	7301 S 51st Street	1,255	0.100	105.0	0.093	105.80	0.008	-0.8	no											
8/5/2022	1:05 PM	48	central	7526 S. 51st Street	1652	0.080	112.0																
8/5/2022	1:05 PM	48	central	SE of Quarry	2,427	0.038	110.0																
8/11/2022	11:24 AM	49	central	5800 ALLWOOD	3,873	N/D	N/D	N/D	N/D	--	--												
8/11/2022	11:24 AM	49	central	7301 S 51st Street	1,039	0.165	110.0	0.158	106.30	0.008	3.7	no											
8/11/2022	11:24 AM	49	central	7526 S. 51st Street	1,609	0.075	110.0																
8/11/2022	11:24 AM	49	central	SE of Quarry	2,487	0.033	110.0																
8/11/2022	11:27 AM	50	north	5800 ALLWOOD	4,285	N/D	N/D	N/D	N/D	--	--												
8/11/2022	11:27 AM	50	north	7301 S 51st Street	1204	0.048	110.0	0.063	105.8	-0.015	4.2	no											
8/11/2022	11:27 AM	50	north	7526 S. 51st Street	2,073	N/D	N/D																
8/11/2022	11:27 AM	50	north	SE of Quarry	2,988	N/D	N/D																
8/11/2022	11:27 AM	50	north	SE of Quarry	2,988	N/D	N/D																

Payne & Dolan Blast Monitoring Data								Stantec Blast Monitoring Data		Comparison of P&D and Stantec Monitoring Data		Complaint Information			Weather (for complaints only)								
Date	Time	Activity Number	General Quarry Blast Location	Monitor Location	Distance (feet)	PPV (in/sec)	AO (dB)	PPV (in/sec)	AO (dB)	Difference in PPV Values	Difference in AO dB Values	Com-plaints?	#	Primary direction of complaints (from quarry)	Wind Direc-tion	Wind Speed (mph)	Wind Gusts (mph)	Press-ure (in)	Humi-dity (%)	Condi-tions	Precip-itation	Temp. (°F)	
8/16/2022	12:15 PM	51	central	5800 ALLWOOD	3,867	N/D	N/D	N/D	N/D	--	--	no											
8/16/2022	12:20 PM	51	central	7301 S 51st Street	1,135	0.150	112.0	0.170	110.0	-0.020	2.0												
8/16/2022	12:20 PM	51	central	7526 S. 51st Street	1,700	0.073	117.0																
8/16/2022	12:20 PM	51	central	SE of Quarry	2,548	0.023	114.0																
8/18/2022	11:30 AM	52	north	5800 ALLWOOD	4,285	N/D	N/D	N/D	N/D	--	--	no											
8/18/2022	11:29 AM	52	north	7301 S 51st Street	1,204	0.098	106.0	0.088	105.3	0.011	0.7												
8/18/2022	11:29 AM	52	north	7526 S. 51st Street	2,073	0.035	109.0																
8/18/2022	11:30 AM	52	north	SE of Quarry	2,988	N/D	N/D																
8/22/2022	11:45 AM	53	central	5800 ALLWOOD	3,925	N/D	N/D	N/D	N/D	--	--	no											
8/22/2022	11:40 AM	53	central	7301 S 51st Street	1,088	0.163	114.0	0.135	111.8	0.028	2.2												
8/22/2022	11:40 AM	53	central	7526 S. 51st Street	1,706	0.093	121.0																
8/22/2022	11:40 AM	53	central	SE of Quarry	2,578	0.028	116.0																
8/24/2022	1:00 PM	54	north	5800 ALLWOOD	4,070	N/D	N/D	N/D	N/D	--	--	no											
8/24/2022	1:04 PM	54	north	7301 S 51st Street	1,544	0.050	111.0	0.048	108.2	0.003	2.8												
8/24/2022	1:00 PM	54	north	7526 S. 51st Street	2,217	N/D	N/D																
8/24/2022	1:00 PM	54	north	SE of Quarry	3,002	N/D	N/D																
8/26/2022	12:30 PM	55	central	5800 ALLWOOD	3,800	N/D	N/D	N/D	N/D	--	--	no											
8/26/2022	12:30 PM	55	central	7301 S 51st Street	1,248	0.193	111.0	0.170	108.2	0.023	2.8												
8/26/2022	12:30 PM	55	central	7526 S. 51st Street	1,753	0.085	117.0																
8/26/2022	12:30 PM	55	central	SE of Quarry	2,554	0.030	113.0																
8/30/2022	12:09 PM	56	central	5800 ALLWOOD	3,821	0.023	109.0	N/D	N/D	--	--	no											
8/30/2022	12:08 PM	56	central	7301 S 51st Street	1,259	0.103	113.0	0.090	113.1	0.013	-0.1												
8/30/2022	12:08 PM	56	central	7526 S. 51st Street	1,782	0.083	117.0																
8/30/2022	12:09 PM	56	central	SE of Quarry	2,585	0.045	114.0																
9/1/2022	12:47 PM	57	north	5800 ALLWOOD	4,069	N/D	N/D	N/D	N/D	--	--	no											
9/1/2022	12:47 PM	57	north	7301 S 51st Street	1544	N/D	N/D	N/D	N/D	--	--												
9/1/2022	12:47 PM	57	north	7526 S. 51st Street	2,216	N/D	N/D																
9/1/2022	12:47 PM	57	north	SE of Quarry	3,001	N/D	N/D																
9/7/2022	11:15 AM	58	north	5800 ALLWOOD	3,863	N/D	N/D	N/D	N/D	--	--	no											
9/7/2022	11:12 AM	58	north	7301 S 51st Street	1326	0.128	112.0	0.136	110.2	-0.008	1.8												
9/7/2022	11:12 AM	58	north	7526 S. 51st Street	1,880	0.113	119.0																
9/7/2022	11:12 AM	58	north	SE of Quarry	2,673	0.025	119.0																
9/9/2022	12:02 PM	59	north	5800 ALLWOOD	4,123	N/D	N/D	N/D	N/D	--	--	no											
9/9/2022	12:00 PM	59	north	7301 S 51st Street	1542	0.060	111.0	0.083	106.0	-0.023	5.0												
9/9/2022	12:00 PM	59	north	7526 S. 51st Street	2,247	0.030	111.0																
9/9/2022	12:02 PM	59	north	SE of Quarry	3,046	N/D	N/D																
9/14/2022	11:20 AM	60	north	5800 ALLWOOD	4,078	N/D	N/D	N/D	N/D	--	--	no											
9/14/2022	11:24 AM	60	north	7301 S 51st Street	1778	0.050	108.0	0.060	104.2	-0.010	3.8												
9/14/2022	11:24 AM	60	north	7526 S. 51st Street	2,419	0.035	109.0																
9/14/2022	11:20 AM	60	north	SE of Quarry	3,150	N/D	N/D																
9/21/2022	11:00 AM	61	north	5800 ALLWOOD	3,874	0.023	105.0	N/D	N/D	--	--	yes	1	east	NW	13	24	29.12	48	Fair	none	77	
9/21/2022	11:00 AM	61	north	7301 S 51st Street	1,330	0.130	119.0	0.090	115.9	0.040	3.1												
9/21/2022	11:00 AM	61	north	7526 S. 51st Street	1,892	0.090	119.0																
9/21/2022	11:00 AM	61	north	SE of Quarry	2,686	0.040	115.0																

Payne & Dolan Blast Monitoring Data								Stantec Blast Monitoring Data		Comparison of P&D and Stantec Monitoring Data		Complaint Information			Weather (for complaints only)									
Date	Time	Activity Number	General Quarry Blast Location	Monitor Location	Distance (feet)	PPV (in/sec)	AO (dB)	PPV (in/sec)	AO (dB)	Difference in PPV Values	Difference in AO dB Values	Com-plaints?	#	Primary direction of complaints (from quarry)	Wind Direc-tion	Wind Speed (mph)	Wind Gusts (mph)	Press-ure (in)	Humi-dity (%)	Condi-tions	Precip-itation	Temp. (°F)		
9/23/2022	12:52 PM	62	south	5800 ALLWOOD	1,495	0.073	107.0	0.068	101.9	0.005	5.1	no												
9/23/2022	1:00 PM	62	south	7301 S 51st Street	3019	N/D	N/D	N/D	N/D	--	--													
9/23/2022	12:52 PM	62	south	7526 S. 51st Street	1,945	0.065	96.0																	
9/23/2022	12:52 PM	62	south	SE of Quarry	1,137	0.120	106.0																	
9/28/2022	1:21 PM	63	north	5800 ALLWOOD	4,237	N/D	N/D	N/D	N/D	--	--	no												
9/28/2022	1:24 PM	63	north	7301 S 51st Street	1,430	0.090	111.0	0.090	115.9	0.000	-4.9													
9/28/2022	1:21 PM	63	north	7526 S. 51st Street	2224	N/D	N/D																	
9/28/2022	1:21 PM	63	north	SE of Quarry	3,075	N/D	N/D																	
9/29/2022	11:11 AM	64	north	5800 ALLWOOD	3,807	0.025	104.0	N/D	N/D	--	--	no												
9/29/2022	11:11 AM	64	north	7301 S 51st Street	1,328	0.108	118.0	N/D	N/D	--	--													
9/29/2022	11:11 AM	64	north	7526 S. 51st Street	1837	0.113	118.0																	
9/29/2022	11:11 AM	64	north	SE of Quarry	2,617	0.043	111.0																	
9/29/2022	2:43 PM	65	south	5800 ALLWOOD	1,303	0.070	112.0	0.085	97.5	-0.015	14.5	yes	2	south	ESE	9	none	29.67	60	Mostly Cloudy	none	59		
9/29/2022	2:43 PM	65	south	7301 S 51st Street	3,205	N/D	N/D	0.105	114.4	--	--													
9/29/2022	2:43 PM	65	south	7526 S. 51st Street	2,137	0.068	108.0																	
9/29/2022	2:43 PM	65	south	SE of Quarry	1,290	0.103	113.0																	
<b>Totals</b>		<b>26</b>	<b>blast events</b>										<b>4</b>	<b>events with complaints / total complaints</b>										

**Notes:** Shaded cells do not have a meter in that location  
N/D = not detected, meter did not detect blast

## **FIGURE 1**

SEISMIC MONITORING, BLASTING, AND COMPLAINT LOCATIONS, 3rd QUARTER 2022







**Franklin Aggregates**  
**Recorded Ground Vibration and Airblast Levels for PDDs #23 & 24**  
**July 2022**

Time	Activity	Location	Distance	PPV	Freq	AO
7/26/2022 11:12	45	5800 ALLWOOD	3,937	N/T	N/T	N/A
7/26/2022 11:12	45	7526 S. 51st Street	1,707	0.048	27.8	117
7/26/2022 11:12	45	SE of Quarry	2,585	N/T	N/T	N/A
7/26/2022 11:12	45	7301 S 51st Street	1,079	0.095	45.5	109
7/21/2022 10:24	44	5800 ALLWOOD	1,186	0.035	25	107
7/21/2022 10:24	44	7526 S. 51st Street	2,257	0.048	25	110
7/21/2022 10:24	44	SE of Quarry	1,400	0.11	23.8	108
7/21/2022 10:24	44	7301 S 51st Street	3,314	N/T	N/T	N/A
7/18/2022 13:23	43	5800 ALLWOOD	3,791	N/T	N/T	N/A
7/18/2022 13:23	43	7526 S. 51st Street	1,807	0.035	18.5	117
7/18/2022 13:23	43	SE of Quarry	2,589	0.023	12.2	110
7/18/2022 13:23	43	7301 S 51st Street	1,310	0.05	21.7	116
7/14/2022 12:02	42	5800 ALLWOOD	3,605	N/T	N/T	N/A
7/14/2022 12:02	42	7526 S. 51st Street	1,644	0.04	21.7	112
7/14/2022 12:02	42	SE of Quarry	2,383	0.025	21.7	107
7/14/2022 12:02	42	7301 S 51st Street	1,315	0.04	9.1	110
7/12/2022 10:30	41	5800 ALLWOOD	3,765	N/T	N/T	N/A
7/12/2022 10:30	41	7526 S. 51st Street	1,598	0.07	25	116
7/12/2022 10:30	41	SE of Quarry	2,428	0.028	23.8	115
7/12/2022 10:30	41	7301 S 51st Street	1,130	0.103	62.5	110
7/7/2022 11:43	40	5800 ALLWOOD	3,385	N/T	N/T	N/A
7/7/2022 11:43	40	7526 S. 51st Street	1,596	0.083	27.8	118
7/7/2022 11:43	40	SE of Quarry	2,234	0.033	20	108
7/7/2022 11:43	40	7301 S 51st Street	1,460	0.058	33.3	117

PDD Vibration Limit - Per the PDD #23 and #24 Ordinances, ground vibration resulting from P&D blasting shall not exceed 0.30 inches per second on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the ground vibration limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Figure 7.64 of ch. ILHR 7, Wis. Adm. Code (new reference now Wis. Adm. Code, Safety and Professional Services Chapter 307), or 0.65 inches per second, whichever is more restrictive, on any blast.

PDD Airblast Limit - Per the PDD #23 and #24 Ordinances, airblast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the airblast limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in ch.ILHR 7, Wis. Adm. Code on any blast (new reference now Wis. Adm. Code, Safety and Professional Services [SPS] Chapter 307).

**Franklin Aggregates**  
**Recorded Ground Vibration and Airblast Levels for PDDs #23 & 24**  
**August 2022**

Time	Activity	Location	Distance	PPV	Freq	AO
8/30/2022 12:08	56	5800 ALLWOOD	3,821	0.023	20	109
8/30/2022 12:08	56	7526 S. 51st Street	1,782	0.083	35.7	117
8/30/2022 12:08	56	SE of Quarry	2,585	0.045	20.8	114
8/30/2022 12:08	56	7301 S 51st Street	1,259	0.103	33.3	113
8/26/2022 12:30	55	5800 ALLWOOD	3,800	N/T	N/T	N/A
8/26/2022 12:30	55	7526 S. 51st Street	1,753	0.085	23.8	117
8/26/2022 12:30	55	SE of Quarry	2,554	0.03	19.2	113
8/26/2022 12:30	55	7301 S 51st Street	1,248	0.193	50	111
8/24/2022 13:00	54	5800 ALLWOOD	4,070	N/T	N/T	N/A
8/24/2022 13:00	54	7526 S. 51st Street	2,217	N/T	N/T	N/A
8/24/2022 13:00	54	SE of Quarry	3,002	N/T	N/T	N/A
8/24/2022 13:00	54	7301 S 51st Street	1,544	0.05	12.8	111
8/22/2022 11:40	53	5800 ALLWOOD	3,925	N/T	N/T	N/A
8/22/2022 11:40	53	7526 S. 51st Street	1,706	0.093	33.3	121
8/22/2022 11:40	53	SE of Quarry	2,578	0.028	23.8	116
8/22/2022 11:40	53	7301 S 51st Street	1,088	0.163	55.6	114
8/18/2022 11:29	52	5800 ALLWOOD	4,285	N/T	N/T	N/A
8/18/2022 11:29	52	7526 S. 51st Street	2,073	0.035	31.3	109
8/18/2022 11:29	52	SE of Quarry	2,988	N/T	N/T	N/A
8/18/2022 11:29	52	7301 S 51st Street	1,204	0.098	17.2	106
8/16/2022 12:20	51	5800 ALLWOOD	3,867	N/T	N/T	N/A
8/16/2022 12:20	51	7526 S. 51st Street	1,700	0.073	26.3	117
8/16/2022 12:20	51	SE of Quarry	2,548	0.023	12.8	114
8/16/2022 12:20	51	7301 S 51st Street	1,135	0.15	45.5	112
8/11/2022 11:27	50	5800 ALLWOOD	4,285	N/T	N/T	N/A
8/11/2022 11:27	50	7526 S. 51st Street	2,073	N/T	N/T	N/A
8/11/2022 11:27	50	SE of Quarry	2,988	N/T	N/T	N/A
8/11/2022 11:27	50	7301 S 51st Street	1,204	0.048	22.7	110
8/11/2022 11:24	49	5800 ALLWOOD	3,873	N/T	N/T	N/A
8/11/2022 11:24	49	7526 S. 51st Street	1,609	0.075	27.8	110
8/11/2022 11:24	49	SE of Quarry	2,487	0.033	21.7	110
8/11/2022 11:24	49	7301 S 51st Street	1,039	0.165	45.5	110
8/5/2022 13:05	48	5800 ALLWOOD	3,683	N/T	N/T	N/A
8/5/2022 13:05	48	7526 S. 51st Street	1,652	0.08	23.8	112
8/5/2022 13:05	48	SE of Quarry	2,427	0.038	19.2	110
8/5/2022 13:05	48	7301 S 51st Street	1,255	0.1	27.8	105
8/2/2022 11:17	47	5800 ALLWOOD	3,572	N/T	N/T	N/A
8/2/2022 11:17	47	7526 S. 51st Street	1,598	0.07	22.7	112
8/2/2022 11:17	47	SE of Quarry	2,333	0.038	17.2	110
8/2/2022 11:17	47	7301 S 51st Street	1,303	0.055	27.8	110

PDD Vibration Limit - Per the PDD #23 and #24 Ordinances, ground vibration resulting from P&D blasting shall not exceed 0.30 inches per second on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the ground vibration limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Figure 7.64 of ch. ILHR 7, Wis. Adm. Code (new reference now Wis. Adm. Code, Safety and Professional Services Chapter 307), or 0.65 inches per second, whichever is more restrictive, on any blast.

PDD Airblast Limit - Per the PDD #23 and #24 Ordinances, airblast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the airblast limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in ch. ILHR 7, Wis. Adm. Code on any blast (new reference now Wis. Adm. Code, Safety and Professional Services [SPS] Chapter 307).

**Franklin Aggregates**  
**Recorded Ground Vibration and Airblast Levels for PDDs #23 & 24**  
**September 2022**

Time	Activity	Location	Distance	PPV	Freq	AO
9/29/2022 14:43	65	5800 ALLWOOD	1,303	0.07	41.7	112
9/29/2022 14:43	65	7526 S. 51st Street	2,137	0.068	25	108
9/29/2022 14:43	65	SE of Quarry	1,290	0.103	25	113
9/29/2022 14:43	65	7301 S 51st Street	3,205	N/T	N/T	N/A
9/29/2022 11:11	64	5800 ALLWOOD	3,807	0.025	9.3	104
9/29/2022 11:11	64	7526 S. 51st Street	1,837	0.113	25	118
9/29/2022 11:11	64	SE of Quarry	2,617	0.043	20	111
9/29/2022 11:11	64	7301 S 51st Street	1,328	0.108	14.3	118
9/28/2022 13:21	63	5800 ALLWOOD	4,237	N/T	N/T	N/A
9/28/2022 13:21	63	7526 S. 51st Street	2,224	N/T	N/T	N/A
9/28/2022 13:21	63	SE of Quarry	3,075	N/T	N/T	N/A
9/28/2022 13:21	63	7301 S 51st Street	1,430	0.09	17.2	111
9/23/2022 12:52	62	5800 ALLWOOD	1,495	0.073	62.5	107
9/23/2022 12:52	62	7526 S. 51st Street	1,945	0.065	25	96
9/23/2022 12:52	62	SE of Quarry	1,137	0.12	29.4	106
9/23/2022 12:52	62	7301 S 51st Street	3,019	N/T	N/T	N/A
9/21/2022 11:00	61	5800 ALLWOOD	3,874	0.023	9.8	105
9/21/2022 11:00	61	7526 S. 51st Street	1,892	0.09	17.2	119
9/21/2022 11:00	61	SE of Quarry	2,686	0.04	16.1	115
9/21/2022 11:00	61	7301 S 51st Street	1,330	0.13	45.5	119
9/14/2022 11:20	60	5800 ALLWOOD	4,078	N/T	N/T	N/A
9/14/2022 11:20	60	7526 S. 51st Street	2,419	0.035	18.5	109
9/14/2022 11:20	60	SE of Quarry	3,150	N/T	N/T	N/A
9/14/2022 11:20	60	7301 S 51st Street	1,778	0.05	14.7	108
9/9/2022 12:00	59	5800 ALLWOOD	4,123	N/T	N/T	N/A
9/9/2022 12:00	59	7526 S. 51st Street	2,247	0.03	19.2	111
9/9/2022 12:00	59	SE of Quarry	3,046	N/T	N/T	N/A
9/9/2022 12:00	59	7301 S 51st Street	1,542	0.06	14.7	111
9/7/2022 11:12	58	5800 ALLWOOD	3,863	N/T	N/T	N/A
9/7/2022 11:12	58	7526 S. 51st Street	1,880	0.113	27.8	119
9/7/2022 11:12	58	SE of Quarry	2,673	0.025	16.7	119
9/7/2022 11:12	58	7301 S 51st Street	1,326	0.128	45.5	112
9/1/2022 12:47	57	5800 ALLWOOD	4,069	N/T	N/T	N/A
9/1/2022 12:47	57	7526 S. 51st Street	2,216	N/T	N/T	N/A
9/1/2022 12:47	57	SE of Quarry	3,001	N/T	N/T	N/A
9/1/2022 12:47	57	7301 S 51st Street	1,544	N/T	N/T	N/A

PDD Vibration Limit - Per the PDD #23 and #24 Ordinances, ground vibration resulting from P&D blasting shall not exceed 0.30 inches per second on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the ground vibration limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Figure 7.64 of ch. ILHR 7, Wis. Adm. Code (new reference now Wis. Adm. Code, Safety and Professional Services Chapter 307), or 0.65 inches per second, whichever is more restrictive, on any blast.

PDD Airblast Limit - Per the PDD #23 and #24 Ordinances, airblast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the airblast limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in ch. ILHR 7, Wis. Adm. Code on any blast (new reference now Wis. Adm. Code, Safety and Professional Services [SPS] Chapter 307).

**Franklin Aggregates**  
**Recorded Ground Vibration and Airblast Levels for PDDs #23 & 24**  
**October 2022**

Time	Activity	Location	Distance	PPV	Freq	AO
10/31/2022 11:45	73	5800 ALLWOOD	1,566	0.053	33.3	113
10/31/2022 11:45	73	7526 S. 51st Street	1,884	0.095	23.8	106
10/31/2022 11:45	73	SE of Quarry	1,129	0.118	29.4	108
10/31/2022 11:45	73	7301 S 51st Street	2,937	N/T	N/T	N/A
10/27/2022 10:20	72	5800 ALLWOOD	1,616	0.045	15.2	102
10/27/2022 10:20	72	7526 S. 51st Street	1,945	0.06	13.5	98
10/27/2022 10:20	72	SE of Quarry	1,358	0.065	21.7	110
10/27/2022 10:20	72	7301 S 51st Street	2,877	N/T	N/T	N/A
10/24/2022 9:36	71	5800 ALLWOOD	2,011	N/T	N/T	N/A
10/24/2022 9:36	71	7526 S. 51st Street	1,527	N/T	N/T	N/A
10/24/2022 9:36	71	SE of Quarry	1,105	0.055	45.5	103
10/24/2022 9:36	71	7301 S 51st Street	2,476	N/T	N/T	N/A
10/14/2022 13:43	70	5800 ALLWOOD	3,805	N/T	N/T	N/A
10/14/2022 13:43	70	7526 S. 51st Street	1,966	0.073	17.2	115
10/14/2022 13:43	70	SE of Quarry	2,708	0.023	21.7	111
10/14/2022 13:43	70	7301 S 51st Street	1,463	0.125	38.5	115
10/10/2022 12:38	69	5800 ALLWOOD	4,135	N/T	N/T	N/A
10/10/2022 12:38	69	7526 S. 51st Street	2,303	0.133	22.7	120
10/10/2022 12:38	69	SE of Quarry	3,090	0.033	20.8	114
10/10/2022 12:38	69	7301 S 51st Street	1,601	0.088	19.2	123
10/10/2022 12:32	68	5800 ALLWOOD	1,618	0.08	41.7	108
10/10/2022 12:32	68	7526 S. 51st Street	1,863	0.055	26.3	104
10/10/2022 12:32	68	SE of Quarry	1,188	0.143	31.3	108
10/10/2022 12:32	68	7301 S 51st Street	2,872	N/T	N/T	N/A
10/4/2022 12:39	67	5800 ALLWOOD	4,194	N/T	N/T	N/A
10/4/2022 12:39	67	7526 S. 51st Street	2,274	N/T	N/T	N/A
10/4/2022 12:39	67	SE of Quarry	3,093	N/T	N/T	N/A
10/4/2022 12:39	67	7301 S 51st Street	1,523	0.043	26.3	112
10/4/2022 12:27	66	5800 ALLWOOD	3,895	N/T	N/T	N/A
10/4/2022 12:27	66	7526 S. 51st Street	1,899	0.068	11.1	115
10/4/2022 12:27	66	SE of Quarry	2,701	0.023	15.2	112
10/4/2022 12:27	66	7301 S 51st Street	1,319	0.143	35.7	110

PDD Vibration Limit - Per the PDD #23 and #24 Ordinances, ground vibration resulting from P&D blasting shall not exceed 0.30 inches per second on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the ground vibration limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Figure 7.64 of ch. ILHR 7, Wis. Adm. Code (new reference now Wis. Adm. Code, Safety and Professional Services Chapter 307), or 0.65 inches per second, whichever is more restrictive, on any blast.

PDD Airblast Limit - Per the PDD #23 and #24 Ordinances, airblast resulting from P&D blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year. The Operator shall not exceed the airblast limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in ch. ILHR 7, Wis. Adm. Code on any blast (new reference now Wis. Adm. Code, Safety and Professional Services [SPS] Chapter 307).



Welcome City of Franklin

[Logout](#)

- [Home/View](#)

Show  entries

Search:

Date	Time	Shot #	Seismo Loc	PPV	AO
11/16/2022	10:00 am	78	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
11/16/2022	10:00 am	78	Franklin Quarry (7301 S 51st Street)	N/T	N/T
11/16/2022	9:53 am	78	Franklin Quarry (SE of Quarry)	0.100	103
11/16/2022	9:53 am	78	Franklin Quarry (7526 S. 51st Street)	0.035	93
11/15/2022	11:45 am	77	Franklin Quarry (5800 ALLWOOD)	N/T	N/T
11/15/2022	11:45 am	77	Franklin Quarry (SE of Quarry)	0.028	117
11/15/2022	11:45 am	77	Franklin Quarry (7301 S 51st Street)	0.155	111
11/15/2022	11:45 am	77	Franklin Quarry (7526 S. 51st Street)	0.078	119
11/11/2022	1:00 pm	76	Franklin Quarry (7301 S 51st Street)	N/T	N/T
11/11/2022	1:02 pm	76	Franklin Quarry (5800 ALLWOOD)	0.045	112
11/11/2022	1:02 pm	76	Franklin Quarry (SE of Quarry)	0.145	110
11/11/2022	1:02 pm	76	Franklin Quarry (7526 S. 51st Street)	0.075	106
11/10/2022	10:50 am	75	Franklin Quarry (5800 ALLWOOD)	0.053	111
11/10/2022	10:50 am	75	Franklin Quarry (7301 S 51st Street)	0.035	108
11/10/2022	10:50 am	75	Franklin Quarry (SE of Quarry)	0.193	109
11/10/2022	10:50 am	75	Franklin Quarry (7526 S. 51st Street)	0.085	107
11/04/2022	11:50 am	74	Franklin Quarry (7301 S 51st Street)	N/T	N/T
11/04/2022	11:50 am	74	Franklin Quarry (5800 ALLWOOD)	0.043	114
11/04/2022	11:50 am	74	Franklin Quarry (SE of Quarry)	0.130	113
11/04/2022	11:50 am	74	Franklin Quarry (7526 S. 51st Street)	0.055	108

Showing 1 to 20 of 332 entries

FirstPrevious12345...17NextLast

Franklin Quarry



## Regulo Martinez-Montilva

---

**Subject:** Stantec / quarry monitoring budget / 2023  
**Attachments:** stantec\_franklin\_quarry mntg scope of work 2023\_final.pdf

Regulo,

Attached is a revised Scope of Services document for 2023 to meet the \$45,000 budget. In a nutshell:

- Operations Monitoring
  - Small increase in cost per event
  - Number of events reduced from 9 to 8
- Blast Monitoring
  - Small increase in cost per event
  - Same number of events = 12
- Exceptional Blast Complaint Evaluation
  - Cost remains the same
  - We have not completed any of these in two years now
  - Thus, I reduced the number of events to one
- Quarterly Reports and Presentation
  - Small increase in cost per event
  - Same number of events = 4

It would be great if this could be in the meeting minutes to share with the Committee members. Kristen can discuss.

Thanks.

**Mike Roznowski**

Senior Principal

Direct (920) 278-3200 / office (920) 592-8400

Mobile: (920) 655-1852



## ATTACHMENT A - QUARRY MONITORING SERVICES

### SCOPE OF WORK AND ASSOCIATED COST

The following scope of work items, each with their own associated professional fee, is offered to the City by Stantec for calendar year 2023.

DESCRIPTION	EVENT PERIOD	COST PER EVENT	# OF EVENTS	SUBTOTAL	NOTES REGARDING SCOPE OF SERVICES
<b>Operations Monitoring</b>	daily	\$800	8	\$6,400	Visual assessments around quarry perimeter, concentrating on Rawson Avenue adjacent to the quarry entrances. Will include weather data as part of observation summary, along with photos and short duration videos during periods of high winds. A percentage of the visits will also include on-site observations and records review.
<b>Blast Monitoring</b>	monthly	\$1,900	12	\$22,800	Stantec will provide remote vibration monitoring by using Nomis Seismographs. We plan to subcontract Sauls Seismic to assist with this scope of work. Two separate seismographs will be installed, each co-located with two existing Payne & Dolan (Vibra-Tech) monitors located at: 7301 S. 51 <sup>st</sup> Street and 5800 W. Allwood Drive. Each monitor will be provided with an enclosure and will either be pole mounted or located in a short-stack weatherproof enclosure. Power will be provided via an internal battery and an external battery connected to a solar panel. All maintenance/repair and annual calibration of seismographs are included. This type of configuration will provide continuous (24/7) remote monitoring, allowing Stantec to have access to data anytime via the Internet. No written reports or summaries will be provided monthly.
<b>Exceptional Blast Complaint Evaluation</b>	Per City request	\$1,000	1	\$1,000	For unusual blast events (e.g., resulting in multiple complaints), at the City's request, Stantec will prepare a brief summary report describing: seismic data from both Stantec/Payne & Dolan placed monitors; wind direction and speed the day of the complaint, a figure showing blast and complaint locations. (Note: if no exceptional blast complaints occur, this portion of the budget may be used for another purpose as requested by the City.)
<b>Quarterly Reports and Presentation</b>	Quarterly (May, August, November 2023, and February 2024)	\$3,700	4	\$14,800	Stantec will prepare a quarterly report (to be distributed/presented as part of the regularly scheduled Quarry Monitoring Committee meetings) describing: <ul style="list-style-type: none"> <li>• Operations monitoring completed in prior quarter</li> <li>• Blast monitoring completed in prior quarter (summary of blasting data, comparing the Payne &amp; Dolan unit recordings, to the Stantec unit recordings)</li> <li>• Citizen complaints received by the City of Franklin in prior quarter                             <ul style="list-style-type: none"> <li>○ For off-site dust complaints                                     <ul style="list-style-type: none"> <li>▪ weather conditions (wind direction and speed) the day of the complaint</li> </ul> </li> <li>○ For off-site seismic complaints                                     <ul style="list-style-type: none"> <li>▪ seismic data from both Stantec and Payne &amp; Dolan placed monitors</li> <li>▪ weather conditions (wind direction and speed; temp.; humidity; precipitation) the day of the complaint</li> </ul> </li> <li>▪ a figure showing locations of blasts along with location of complaints</li> </ul> </li> </ul> The February 2024 quarterly report and presentation will also present highlights of the operations, blast monitoring, and complaint evaluations, completed during calendar year 2023. This annual report is not meant to repeat what has already been provided in the prior quarterly reports; rather, it is intended to be a brief summary.
<b>TOTAL (compared to budget: \$45,000)</b>				<b>\$45,000</b>	

**Note:** The number of Exceptional Blast Complaint Evaluations is estimated, since the exact number cannot be determined at this time. In addition, based on prior years Stantec is estimating approximately 25 different blasts will result in complaints needing to be evaluated as part of the quarterly reports and presentations. Stantec agrees to be flexible with the City regarding this scope of work as the year progresses as the actual number of events are determined, and agrees not to exceed the approved budget without prior approval.