

CITY OF FRANKLIN
QUARRY MONITORING COMMITTEE*
MEETING AGENDA

Franklin City Hall, Council Chambers
9229 West Loomis Road, Franklin, Wisconsin 53132
Tuesday, October 28, 2025, 6:00 p.m.

- I. Call to Order, Roll Call and Pledge of Allegiance
- II. Approval of Minutes
 - a. Regular meeting of July 29, 2025.
- 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. Business (Action may be taken on any item)
 - a. Presentation by Stantec Consulting Services, Inc., 3rd quarter of 2025 (Jul-Sep).
 - b. Quarry monitoring scope of services for calendar year 2026.
 - c. Update on nonmetallic mining reclamation performance audit.
- V. Meeting scheduling discussion
- VI. 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
July 29, 2025
Minutes**

unapproved

I. Call to Order and Roll Call

Chair Dina Swanson called the July 29, 2025 Quarry Monitoring Committee to order at 6:00 p.m. in the Council Chambers at Franklin City Hall, 9229 W. Loomis Road, Franklin, Wisconsin.

Present was Chair Dina Swanson, Vice Chair Nabil Salous, Alderman Yousef Hasan, and Members Edward Pings and Jon TenHaken. Also present were Planning Manager Régulo Martínez-Montilva, Kristen Gunderson-Inden of Stantec Consulting Services and Bryanna Bucholtz of Walbec Group.

II. Approval of Minutes

Alderman Hasan moved and Vice Chair Salous seconded a motion to approve the minutes of the April 22, 2025. On voice vote, all voted 'aye;' motion carried (5-0-0).

III. Citizen Comment

The Citizen Comment period opened at 6:02 pm and closed at 6:02 pm.

IV. Business

a. Presentation by Stantec Consulting Services, Inc., 2nd quarter of 2025 (Apr-Jun).

Kristen Gunderson-Inden of Stantec Consulting Services presented.

Alderman Hasan moved and Member Pings seconded a motion to accept and place on file. On voice vote, all voted 'aye; motion carried (5-0-0).

b. Seismograph relocation

Kristen Gunderson-Inden of Stantec Consulting Services and Bryanna Bucholtz of Walbec Group presented.

Member TenHaken moved and Vice Chair Salous seconded a motion to accept the Seismograph relocation. On voice vote, all voted 'aye; motion carried (5-0-0).

V. Schedule next meeting

Next meeting is scheduled for October 28, 2025

VI. Adjournment

Member Pings moved and Member TenHaken seconded to adjourn the July 29, 2025 Quarry Monitoring Committee meeting at 6:17 pm. On voice vote, all voted ‘aye;’ motion carried (5-0-0).

DRAFT



Stantec Consulting Services Inc.
12308 North Corporate Parkway, Suite 600
Mequon WI 53092-2661

October 16, 2025

Project/File: 193710393

Regulo Martinez-Montilva

Planning Manager - Department of City Development
City of Franklin
9229 West Loomis Road
Franklin, Wisconsin 53132
RMartinez-Montilva@franklinwi.gov

Dear Regulo Martinez-Montilva,

Reference: City of Franklin, WI - Franklin Aggregates Quarry Monitoring Summary, Period: 3rd Quarter 2025

The enclosed information summarizes monitoring activities completed during the third quarter of 2025 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 descriptions 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 SharePoint site for review by City representatives. Copies of individual reports are not provided with this summary report.

Five observation events were completed during the monitoring period. Unannounced inspections were completed on July 10, August 13, August 25, and September 15; an announced inspection was performed on July 29. The announced inspection on July 29 also included an inspector from the Wisconsin Department of Natural Resources. The street sweeper was observed in use on Rawson Avenue during four of the five visits. Typically, minor dust was observed from trucks exiting to the east and occasionally to the west on Rawson Avenue during the visits. No other issues were observed. The northwest gate was in use and the northeast gate was closed during all visits.

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). On August 13, 2025, Stantec monitor (S2) was moved as discussed during the 2nd Quarter Quarry Monitoring Committee Meeting. The meter is now located at 5324 W. Drexel Avenue near Payne & Dolan meter VT4. The other Stantec meter remains in the same location. 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.

Reference: City of Franklin, WI - Franklin Aggregates Quarry Monitoring Summary, Period: 3rd Quarter 2025

Highlights of the seismic data include the following:

- Between July 1 and September 30, 2025, a total of 16 blasting events occurred; 10 of 16 (63%) 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 (WDNR) 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 this quarter. 100% of the quarry's blasts year to date were below this level. This is in conformance with the PDD.
- Per the PDD, air blast 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.
 - One of the blasting events measured by Payne & Dolan or Stantec had an air overpressure (AO) greater than 123dB this quarter ((9/23//25, 9:33 AM, 7575 S. 51st St meter). There were no complaints for this blast. 98% of the quarry's blasts year to date were below this level. This is in conformance with the PDD.
- In general, the largest blast readings at each monitor appear to correlate with the proximity of the nearest adjacent blast location.
 - The corresponding blast data measured by Stantec with the Sauls Seismic monitors generally aligned with the readings at each Payne & Dolan sponsored Vibra-Tech monitor when meters were co-located. However, with the movement of the Payne & Dolan meters in mid-May and the movement of Stantec meter S2 in mid-August, only the meter at 7301 S. 51st Street has a corresponding Stantec meter for the entire monitoring period. Sauls Seismic calibrated both of the Stantec units on April 8, 2025.

Blast Complaint Evaluation

A compilation of all blast events and complaints received by Stantec for the period July 1 through September 30, 2025, is provided as **Attachment C**. Note the following:

Note 1: 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.

Note 2: Attachment C also includes and highlights complaints from property owners located in new housing development in the Marquette Avenue area known as *Lots in Pleasant View Reserve*. These property owners, by acceptance on their individual deeds for each lot, have accepted that the Quarry operation may have an effect on the use and enjoyment of their lot(s), and have waived their right to any objection(s). A summary of those complaints received this quarter is provided below:

Reference: City of Franklin, WI - Franklin Aggregates Quarry Monitoring Summary, Period: 3rd Quarter 2025

- 0 number of blast complaints
- 0 number of complainants

Note 3: Complainant identity may be released upon public records request to the City of Franklin.

Aside from any complaints received from property owners as outlined in Note 2 above, the locations of all other blasts and complaints are shown on **Figure 1**, and the following highlights this information:

Complaints - General

- 2 complaint (formally submitted)
- 2 complaints (informally submitted – phone call only)
- 0 complaints – regarding material in the road
- 4 complaint – regarding vibration/noise

Complaints – Blast Related

- 4 complaints – corresponding to actual blast events
- 0 complaints – not corresponding to specific blast events
- 1 complaints – complainant requested location not be identified
 - 0 identified with general location: east of the Quarry
 - 0 identified with general location: south of the Quarry
 - 0 identified with general location: west of the quarry
 - 1 identified with no general location given
- 0 complaints – complainant location identified

Complaints (non-anonymous or general location given; confirmed blast related) - Locations

- 2 complaints – east of 51st Street
- 1 complaint – south of Drexel Avenue
- 0 complaints – west of Root River

Summary of Complaint Comments – Blast Related

- August 7, 2025 (highest readings at the 7301 S. 51st St. monitor – 0.2550 in/sec PPV, 113 dB AO) – one confidential complaint, one informal complaint to the south – blast in northern pit.
 - “Very loud and strong rumbling! Way too strong near a residential area!”
- September 9, 2025 (highest readings at the 5324 W. Drexel Ave. monitor – 0.1825 in/sec PPV, 114 dB AO) – one formal complaint to the south, one informal complaint to the east – blast in southern pit.
 - “Very significant blast shook entire house. Windows and door rattled.”

Summary of Complaint Comments – Non-Blast Related

- There were no non-blast related complaints this quarter.

Reference: City of Franklin, WI - Franklin Aggregates Quarry Monitoring Summary, Period: 3rd Quarter 2025

Blast Events

- 16 blast events - during monitoring period 3Q2025 (shot numbers 35 through 50)
- 0 blast event - corresponding to complaints
 - 0 weather: rain or light rain
 - 2 weather: haze, partly to mostly cloudy, or cloudy
 - 0 weather: clear, fair, or scattered clouds
 - 1 time: prior to 12:00 pm (noon)
 - 1 time: after 12:00 pm (was at noon)
- 2 blast events with two complaints

Quarry Blast Locations Producing Complaints

- 1 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:

- No complaints came from west of the Root River.

Please feel free to contact Kristen Gunderson-Inden if you have any questions.

Sincerely,

STANTEC CONSULTING SERVICES INC.



Kristen Gunderson-Inden
Senior Environmental Scientist
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Attachments: A - Franklin Quarry Seismic Monitoring Description of Services
B - Franklin Quarry Seismic Monitoring Project Background
C - Summary of Seismic Data – 3rd Quarter 2025
Figure 1 - Seismic Monitoring, Blasting, and Complaint Locations, 3rd Quarter 2025

Attachment A Franklin Quarry Seismic Monitoring
Description of Services

DESCRIPTION OF SERVICES

Direct Observation (Visual) Monitoring

During 2025, Stantec will conduct a total of fifteen (15) 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 day for the visits vary. The observations are planned to 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 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 SharePoint 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 SharePoint 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 on the business day following the day we become aware of any such event.

Seismic Monitoring

Stantec provides remote vibration monitoring using Nomis Seismographs. Sauls Seismic is subcontracted to operate two separate seismographs, which were 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). Payne & Dolan also had monitors at 7526 S. 51st Street (VT2) and southeast of the quarry (VT3). On May 12 and 13, 2025, Payne & Dolan moved VT2, VT3 and VT4 monitors to locations at 7575 S. 51st Street (VT2), 7721 S. 51st Street (VT3) and 5324 W. Drexel Avenue (VT4). The two Stantec meters remained at the same locations until August 13, 2025, when S2 was moved from 5800 W. Allwood Drive to the new VT4 location at 5324 W. Drexel Avenue. Meter S1 remains at the same location.

Each Sauls Seismic monitor is 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.

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 2025, 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. The meter at 5800 W. Allwood Drive was moved in August 2025 to 5324 W. Drexel Avenue. The monitors 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 the calendar year.

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 (VT) meters, which provided independently-monitored Franklin Aggregate blasting data for the entire calendar year. Three of the four monitors used by Vibra-Tech at the start of 2025 were along South 51st Street, and one was just south of West Drexel Avenue. In May 2025, Payne & Dolan moved three of their monitors (VT2, VT3 and VT4) to new locations at 7575 S. 51st Street (VT2), 7721 S. 51st Street (VT3) and 5324 W. Drexel Avenue (VT4). VT1 remains at 7301 S. 51st Street. This independently monitored data was compared to the Stantec-obtained data

Attachment C Summary of Seismic Data – 3rd Quarter 2025

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)	Freq (Hz)	AO (dB)	PPV (in/sec)	Freq (Hz)	AO (dB)	Difference in PPV Values	Difference in Freq 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)
7/2/2025	1:02 PM	35	north	5324 W. Drexel Ave.	3,671	N/D	N/D	N/D							no										
7/2/2025	12:57 PM	35	north	7301 S 51st Street	1,090	0.1450	41.7	112	0.1075	34.1	104.2	0.0375	7.6	7.8											
7/2/2025	12:57 PM	35	north	7575 S. 51st St.	1,973	0.0550	25.0	115																	
7/2/2025	12:57 PM	35	north	7721 S. 51st St.	2,931	0.0300	17.2	114																	
7/2/2025	12:57 PM	35	north	5800 W. Allwood					N/D	N/D	N/D	--	--	--											
7/8/2025	12:47 PM	36	central	5324 W. Drexel Ave.	2,152	0.0800	33.3	107							no										
7/8/2025	12:47 PM	36	central	7301 S 51st Street	1,965	0.0350	27.8	115	N/D	N/D	N/D	--	--	--											
7/8/2025	12:47 PM	36	central	7575 S. 51st St.	1,044	0.1550	33.3	104																	
7/8/2025	12:47 PM	36	central	7721 S. 51st St.	1,572	0.0725	14.3	105																	
7/8/2025	12:47 PM	36	central	5800 W. Allwood					N/D	N/D	N/D	--	--	--											
7/14/2025	10:40 AM	37	central	5324 W. Drexel Ave.	1,950	0.0875	12.2	111							no										
7/14/2025	10:40 AM	37	central	7301 S 51st Street	2,141	0.0425	20.8	112	N/D	N/D	N/D	--	--	--											
7/14/2025	10:40 AM	37	central	7575 S. 51st St.	1,043	0.1900	41.7	110																	
7/14/2025	10:40 AM	37	central	7721 S. 51st St.	1,423	0.1100	15.6	112																	
7/14/2025	10:40 AM	37	central	5800 W. Allwood					N/D	N/D	N/D	--	--	--											
7/16/2025	12:25 PM	38	central	5324 W. Drexel Ave.	1,848	N/D	N/D	N/D							no										
7/16/2025	12:23 PM	38	central	7301 S 51st Street	2,231	0.0325	23.8	111	N/D	N/D	N/D	--	--	--											
7/16/2025	12:23 PM	38	central	7575 S. 51st St.	1,057	0.1300	27.8	104																	
7/16/2025	12:23 PM	38	central	7721 S. 51st St.	1,354	0.0700	17.9	107																	
7/16/2025	12:23 PM	38	central	5800 W. Allwood					N/D	N/D	N/D	--	--	--											
8/1/2025	10:05 AM	39	central	5324 W. Drexel Ave.	2,155	0.0625	31.3	114							no										
8/1/2025	10:05 AM	39	central	7301 S 51st Street	1,928	0.0575	29.4	112	N/D	N/D	N/D	--	--	--											
8/1/2025	10:05 AM	39	central	7575 S. 51st St.	971	0.1525	27.8	112																	
8/1/2025	10:05 AM	39	central	7721 S. 51st St.	1,526	0.0825	23.8	107																	
8/1/2025	10:05 AM	39	central	5800 W. Allwood					N/D	N/D	N/D	--	--	--											
8/7/2025	12:01 PM	40	north	5324 W. Drexel Ave.	3,774	N/D	N/D	N/D							yes	2	south and unknown	ESE	13	none	29.37	67	mostly cloudy	none	84
8/7/2025	12:00 PM	40	north	7301 S 51st Street	931	0.2550	15.2	113	0.2200	17.0	103.5	0.0350	-1.8	9.5											
8/7/2025	12:00 PM	40	north	7575 S. 51st St.	1,981	0.0825	22.7	106																	
8/7/2025	12:00 PM	40	north	7721 S. 51st St.	2,975	0.0450	17.9	111																	
8/7/2025	12:00 PM	40	north	5800 W. Allwood					N/D	N/D	N/D	--	--	--											
9/2/2025	1:30 PM	41	north	5324 W. Drexel Ave.	3,672	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--	no										
9/2/2025	1:22 PM	41	north	7301 S 51st Street	1,164	0.1475	50.0	116	0.1000	13.4	109.5	0.0475	36.6	6.5											
9/2/2025	1:22 PM	41	north	7575 S. 51st St.	2,015	0.0400	11.1	112																	
9/2/2025	1:30 PM	41	north	7721 S. 51st St.	2,959	N/D	N/D	N/D																	
9/4/2025	11:15 AM	42	north	5324 W. Drexel Ave.	4,079	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--											
9/4/2025	11:15 AM	42	north	7301 S 51st Street	1,248	0.0750	38.5	117	0.0575	64.0	108.4	0.0175	-25.5	8.6	no										
9/4/2025	11:15 AM	42	north	7575 S. 51st St.	2,393	N/D	N/D	N/D																	
9/4/2025	11:15 AM	42	north	7721 S. 51st St.	3,362	N/D	N/D	N/D																	
9/9/2025	10:04 AM	43	south	5324 W. Drexel Ave.	798	0.1825	41.7	114	0.1700	39.3	111.5	0.0125	2.4	2.5											
9/9/2025	10:14 AM	43	south	7301 S 51st Street	3,398	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--											
9/9/2025	10:04 AM	43	south	7575 S. 51st St.	1,923	0.0525	35.7	112							yes	2	east and south	SSW	7	none	29.40	56	mostly cloudy	none	64
9/9/2025	10:04 AM	43	south	7721 S. 51st St.	1,400	0.1450	29.4	111																	
9/9/2025	12:15 PM	44	north	5324 W. Drexel Ave.	3,774	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--											
9/9/2025	12:26 PM	44	north	7301 S 51st Street	931	0.2800	45.5	114	0.2225	42.6	107.0	0.0575	2.9	7.0											
9/9/2025	12:26 PM	44	north	7575 S. 51st St.	1,981	0.0600	25.0	115																	
9/9/2025	12:15 PM	44	north	7721 S. 51st St.	2,975	N/D	N/D	N/D							no										
9/12/2025	10:44 AM	45	central	5324 W. Drexel Ave.	2,209	N/D	N/D	N/D	N/D	N/D	N/D	--	--	--											
9/12/2025	10:46 AM	45	central	7301 S 51st Street	1,779	0.0350	33.3	109	N/D	N/D	N/D	--	--	--											
9/12/2025	10:46 AM	45	central	7575 S. 51st St.	604	0.2725	35.7	105																	
9/12/2025	10:45 AM	45	central	7721 S. 51st St.	1,330	0.0625	31.3	106																	

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)	Freq (Hz)	AO (dB)	PPV (in/sec)	Freq (Hz)	AO (dB)	Difference in PPV Values	Difference in Freq 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)
9/17/2025	10:50 AM	46	central	5324 W. Drexel Ave.	2,110	N/T	N/T	N/A	N/D	N/D	N/D	--	--	--	no										
9/17/2025	10:54 AM	46	central	7301 S 51st Street	1,876	0.0450	41.7	108	0.0550	42.6	100.0	-0.0100	-0.9	8.0											
9/17/2025	10:54 AM	46	central	7575 S. 51st St.	594	0.2175	27.8	106																	
9/17/2025	10:54 AM	46	central	7721 S. 51st St.	1,239	0.0450	33.3	109																	
9/19/2025	11:20 AM	47	central	5324 W. Drexel Ave.	2,012	N/T	N/T	N/A	N/D	N/D	N/D	--	--	--	no										
9/19/2025	11:12 AM	47	central	7301 S 51st Street	1,973	0.0450	38.5	109	N/D	N/D	N/D	--	--	--											
9/19/2025	11:12 AM	47	central	7575 S. 51st St.	601	0.2675	35.7	108																	
9/19/2025	11:12 AM	47	central	7721 S. 51st St.	1,150	0.0600	41.7	107																	
9/23/2025	9:33 AM	48	central	5324 W. Drexel Ave.	1,914	0.0350	33.3	103	0.0475	39.3	101.9	-0.0125	-6.0	1.1	no										
9/23/2025	9:33 AM	48	central	7301 S 51st Street	2,070	0.0225	55.6	103	N/D	N/D	N/D	--	--	--											
9/23/2025	9:33 AM	48	central	7575 S. 51st St.	625	0.2125	55.6	126																	
9/23/2025	9:33 AM	48	central	7721 S. 51st St.	1,063	0.0800	35.7	104																	
9/23/2025	12:19 PM	49	south	5324 W. Drexel Ave.	772	0.2525	35.7	112	0.2325	34.1	109.5	0.0200	1.6	2.5	no										
9/23/2025	12:19 PM	49	south	7301 S 51st Street	3,368	0.0250	14.7	104	N/D	N/D	N/D	--	--	--											
9/23/2025	12:19 PM	49	south	7575 S. 51st St.	1,870	0.0725	18.5	117																	
9/23/2025	12:19 PM	49	south	7721 S. 51st St.	1,326	0.1625	31.3	106																	
9/30/2025	12:00 PM	50	north	5324 W. Drexel Ave.	3,873	N/T	N/T	N/A	N/D	N/D	N/D	--	--	--	no										
9/30/2025	11:58 AM	50	north	7301 S 51st Street	1,078	0.2375	62.5	111	0.1525	30.1	101.9	0.0850	32.4	9.1											
9/30/2025	11:58 AM	50	north	7575 S. 51st St.	2,143	0.0450	25.0	111																	
9/30/2025	12:00 PM	50	north	7721 S. 51st St.	3,120	N/T	N/T	N/A																	
Totals		16	blast events												2	4	events with complaints / total complaints	(note: one confidential official							

Notes: Shaded cells do not have a meter in that location
N/D = not detected, meter did not detect blast
Payne and Dolan moved three meters May 12 and 13, 2025 resulting in new meter locations.
Stantec moved one meter August 13, 2025 resulting in new meter locations.

Figure 1 Seismic Monitoring, Blasting, and Complaint Locations, 3rd Quarter 2025

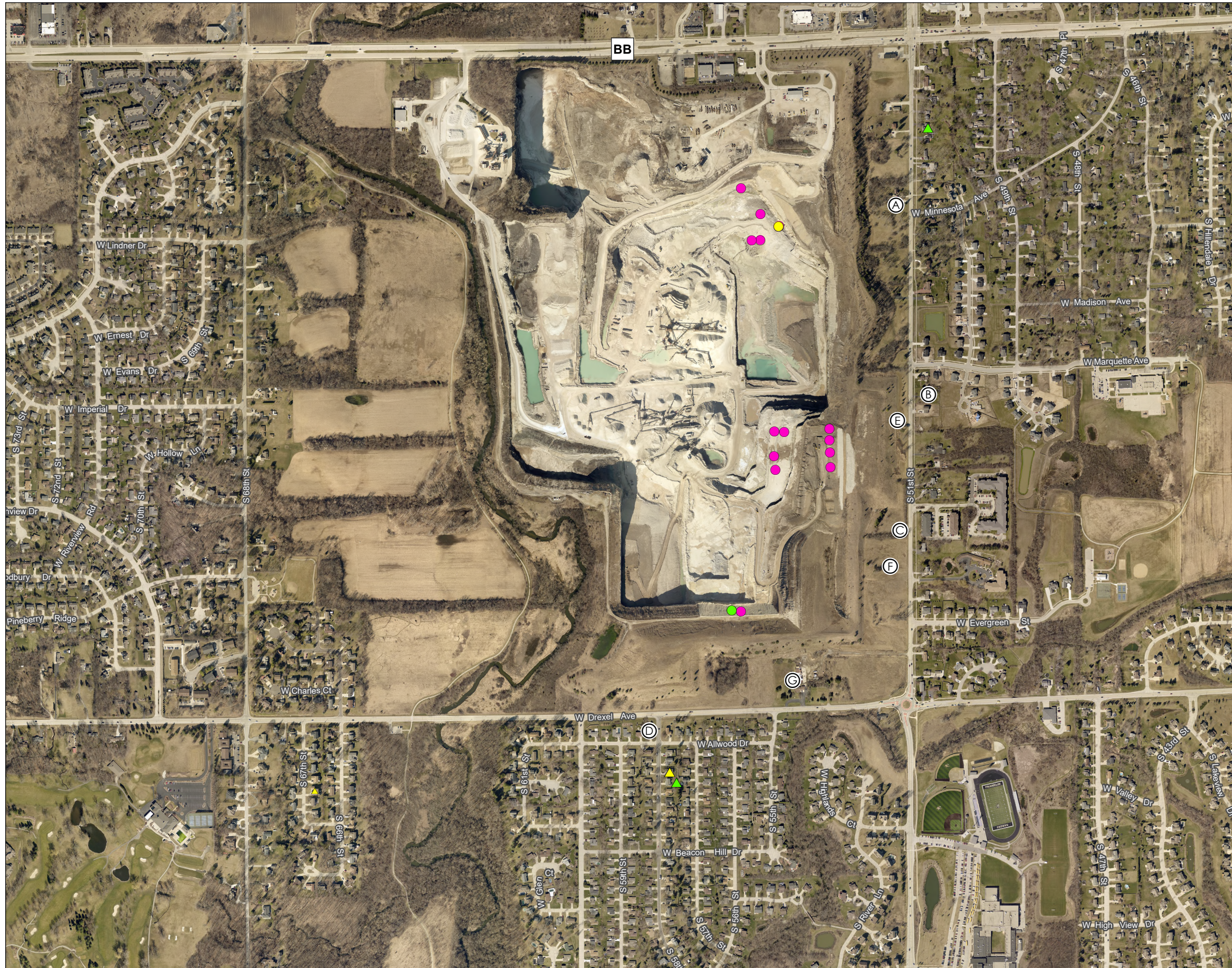


Figure No.

1

Seismic Monitoring, Blasting, and Complaint Locations - 3rd Quarter 2025

Client/Project
City of Franklin
Vicinity of Payne and Dolan Quarry

93710393

Project Location
C. of Franklin, Milwaukee Co., WI

Prepared by AJS on 2025-10-14
TR by DG on 2025-10-14
IR by KGI on 2025-10-14



0 400 800 Feet
(At original document size of 11x17)
1:400,000

Legend

Seismic Monitoring Location

- (A) Vibra-Tech(VT1) and Stantec(S1)
- (B) Vibra-Tech(VT2)¹
- (C) Vibra-Tech(VT3)¹
- (D) Vibra-Tech(VT4)¹ and Stantec(S2)³
- (E) Vibra-Tech(VT2)²
- (F) Vibra-Tech(VT3)²
- (G) Vibra-Tech(VT4)² and Stantec(S2)⁴
- Non-complaint Blast Location

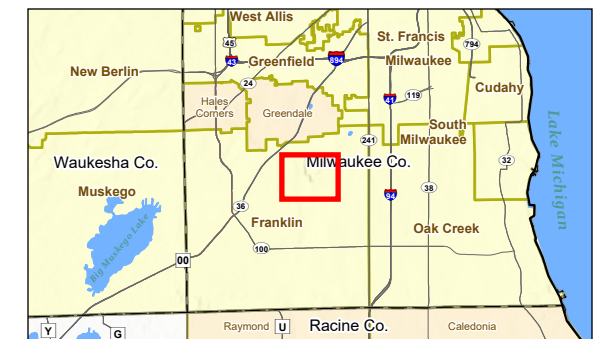
Complaint Blast Location

- Blast #40
- Blast #43

Address Specific Blast Complaint

- ▲ Blast #40
- ▲ Blast #43

- 1: Monitoring Locations Prior to May 11, 2025
- 2: Monitoring Locations After May 13, 2025
- 3: Monitoring Location Prior to August 13, 2025
- 4: Monitoring Location After August 13, 2025



Notes1. Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet2. Data Sources: Stantec, SCO, WDNR, WisDOT3. Orthophotography: 2024 Milwaukee Co



ATTACHMENT A - QUARRY MONITORING SERVICES

SCOPE OF WORK AND ASSOCIATED COST (PREPARED OCTOBER 15, 2025)

The following scope of work items, each with their own associated professional fee, is offered to the City by Stantec for calendar year 2026.

DESCRIPTION	EVENT PERIOD	COST PER EVENT	# OF EVENTS	SUBTOTAL	NOTES REGARDING SCOPE OF SERVICES
Operations Monitoring	daily	\$920	14	\$12,880	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.
Blast Monitoring	monthly	\$2,150	12	\$25,800	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 st Street and 5324 W. Drexel Avenue. 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 (except during calibrations & maintenance actions), allowing Stantec to have access to data anytime via the Internet. No written reports or summaries will be provided monthly.
Exceptional Blast Complaint Evaluation	Per City request	\$920	0	\$0	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: For each exceptional blast complaint evaluation completed, Stantec will reduce one single Operational Monitoring event)
Quarterly Reports and Presentation	Quarterly (May, August, November 2026, and February 2027)	\$4,080	4	\$16,320	Stantec will prepare a quarterly report (to be distributed/presented as part of the regularly scheduled Quarry Monitoring Committee meetings) describing: • Operations monitoring completed in prior quarter • Blast monitoring completed in prior quarter (summary of blasting data, comparing the Payne & Dolan unit recordings, to the Stantec unit recordings) • Citizen complaints received by the City of Franklin in prior quarter ○ For off-site dust complaints ▪ weather conditions (wind direction and speed) the day of the complaint ○ For off-site seismic complaints ▪ seismic data from both Stantec and Payne & Dolan placed monitors ▪ weather conditions (wind direction and speed; temp.; humidity; precipitation) the day of the complaint ▪ a figure showing locations of blasts along with location of complaints ▪ a short summary of the nature of any complaints The quarterly report and presentation in February 2027 will also present highlights of the operations, blast monitoring, and complaint evaluations, completed during calendar year 2026. 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.

\$55,000 TOTAL (compared to budget: \$55,000)

Note: Stantec has completed no Exceptional Blast Complaint Evaluations in several years. 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.



Aug. 18, 2025

Régulo Martínez-Montilva
Planning Manager - Department of City Development
City of Franklin
9229 W. Loomis Road
Franklin, WI 53132

Subject: City of Franklin Nonmetallic Mining Reclamation (NR 135) Performance Audit (RA# 55-079-27300)

Dear Régulo Martínez-Montilva,

I would like to thank you very much for your cooperation and engagement during the ch. NR 135, Wis. Adm. Code, Performance Audit of the City of Franklin Nonmetallic Mining Reclamation program on July 29, 2025. This report summarizes the findings of the audit and provides a timeline for bringing any outstanding items into compliance with state standards.

Currently, the City of Franklin's program is administered by the Planning Department. As required in s. NR 135.47, Wis. Adm. Code, the Wisconsin Department of Natural Resources must periodically review the nonmetallic mining program of each regulatory authority (RA). The intent of the audit process is to:

- Assess the administration of the reclamation program for compliance in accordance with subch. I of ch. 295, Wis. Stats., and ch. NR 135, Wis. Adm. Code.
- Gather and verify information on program administration.
- Provide technical assistance.
- Learn about any challenges and concerns you might have.
- Promote uniform application of the program throughout the state.

In addition to the office portion of the audit, a field inspection was conducted to evaluate your program's inspection process, identify any changing conditions, and to answer questions you had regarding implementation of the program.

The attached Audit Review Worksheet provides a detailed account of each audited compliance category with reference to your program's ordinance and the requirements of ch. NR 135, Wis. Adm. Code, and serves as the basis of the findings in this report. This report includes a summary of the compliance category findings and provides a table of required actions with a timeline for correction. We suggest cross-referencing this report with the information in the Audit Review Worksheet.

Review of Annual Reports

Data from the annual reports submitted since your last audit (Dec. 10, 2013) was summarized in discussion on July 29, 2025. Trends from the reports show the following:

- The number of permitted sites has not changed.
- The area approved to be mined increased by 34 acres (14%).
- The area actually mined increased by 29 acres.
- The area released as reclaimed was 25 acres.

Review Summary

Twenty-four (24) categories within the reclamation program were reviewed. The following summary provides the City of Franklin's program compliance status:

Five (5) audit categories are compliant with ch. NR 135, Wis. Adm. Code:

- Automatic and Expedited
- Review of Operator Annual Reports
- Forwarding DNR portion
- Complaint Response
- Alternative Requirements

Eleven (11) audit categories are considered compliant; however, risk identified in content, process or method may lead to non-compliance with ch. NR 135, Wis. Adm. Code. Recommendations to reduce risk and maintain compliance are provided in the Audit Review Worksheet:

- Permit Application
- Public Notice & Hearing
- Denial of Application
- Duration
- Transfer
- Conducting Inspections
- Enforcement Actions
- Maintenance and availability of records
- Reclamation success and release of FA
- Reasonableness of Fees
- DNR On Site review

Eight (8) audit categories are considered non-compliant with ch. NR 135, Wis. Adm. Code. For these, required actions and timelines for completion are provided below, and additional details may be found in the Audit Review Worksheet:

- Ordinance Review (*Note: This was also a finding in the 2013 audit.*)
- Permit Issuance (*Note: This was also a finding in the 2013 audit.*)
- Modifications (*Note: This was also a finding in the 2013 audit.*)
- Determination of FA amount (*Note: This was also a finding in the 2013 audit.*)
- Reclamation Plan Review
- Reclamation Plan (content)
- Fee Collection
- Changes that affect ability to implement

Required Actions

Actions to be completed to be compliant with the requirements of ch. 295, Wis. Stats., and ch. NR 135, Wis. Adm. Code (with cross reference to additional details found in the Audit Review Worksheet):

NR 135, Wis. Adm. Code/ Ordinance Audit Category	Corrective Action Required	Date to Complete Corrective Action
Ordinance Review	The Unified Development Ordinance will need to be amended to remove language outside of reclamation authority for plans, permit issuance and financial assurance to be consistent with ch. NR 135, Wis. Adm. Code. Four sections of Municipal Code Chapter 176 also need to	04/30/2026 <i>Note: This was also a finding in the 2013 audit.</i>

	be amended and an additional four should be amended to add clarity and reduce risk, as identified in the Audit Review Worksheet.	
Permit Issuance	Develop a permit document to be issued by City staff responsible for administering the RA's nonmetallic mining reclamation program. (Creating a form for a new permit/permit modification/permit transfer would allow the same process to work for all three actions.)	07/31/2026 <i>Note: This was also a finding in the 2013 audit.</i>
Modifications	Develop a process for modification to the reclamation plan and permit consistent with s. NR 135.24, Wis. Adm. Code. Use of a form for a modification (which may include an application for new mine and permit transfer) may be included with the process.	07/31/2026 <i>Note: This was also a finding in the 2013 audit.</i>
Determination of FA amount	The City will need to re-assess the amount of financial assurance (FA) to account for the actual costs of the City to reclaim current active acres and ensure the entire site is covered under one FA form. The FA certificate should cite the reclamation permit vs. any ordinance. The Department further recommends the City receive verification of FA continuation of coverage by the surety company yearly.	07/31/2026 <i>Note: This was also a finding in the 2013 audit.</i>
Reclamation Plan Review	Develop a process for reclamation plan review consistent with ch. NR 135, Wis. Adm. Code. Ensure the review is in keeping with timelines for the period for public notice and reclamation plan/permit application approval or denial. Ensure the review does not incorporate provisions under other any authority other than reclamation by state statute and code. The Department recommends development of a checklist for reclamation plan review separate from a checklist for administrative processes for overall permit issuance.	07/01/2026
Reclamation Plan (content)	The City will need to have the reclamation plan for Franklin Aggregates updated to address deficiencies and reflect changing conditions of the site. Ensure a formal process defined by s. NR 135.24(1) is taken to initiate an order modifying the permit as needed and identifying other needed criteria (including a permit modification application) to ensure compliance. The City should consider requiring a study of groundwater at this time, since that information is needed to describe actual changing site conditions and to identify key reclamation implications for present site management.	08/31/2026
Fee Collection	Ensure only the standard amount of fees applied to the site are assessed. Ensure duplicate fees are not assessed for a single permit. Adjust fee table as needed to maintain a balanced program between expenses and revenue.	01/31/2027
Changes that affect ability to implement	The program is in need of significant improvements, many of which are repeat findings from the 2013 audit. Consider how staffing levels affect administration of the program in light of the degree and number of deficient categories that the City will need to resolve. Your ordinance and ch. NR 135, Wis. Adm. Code, provide the ability to appropriately fund the program through fees. Expenses must be balanced with revenue and must also consider the level of work necessary to maintain the program.	11/30/2025

Pursuant to s. NR 135.47 (4) and based on my observations and review of the City of Franklin's nonmetallic mining reclamation program, the number of deficiencies identified in the list above has increased and includes items from the December 2013 audit. Significant changes will need to be made to address the deficiencies and return to compliance with the requirements in ch. 295, Wis. Stats., and ch. NR 135, Wis. Adm. Code.

Longstanding unaddressed areas will need to be corrected to achieve compliance, including the Ordinance Review findings that are effectively the root cause of several other noncompliance areas. We envisage that reconciling the Unified Development Ordinance with ch. 295, Wis. Stats., and ch. NR 135, Wis. Adm. Code, will resolve a number of downstream issues and will help to overcome the challenges that the City of Franklin has in managing the program in accordance with state standards. The City's ordinances are of particular significance since a municipality's authority to administer and enforce a nonmetallic mining reclamation program begins with its adoption and administration of a compliant reclamation ordinance.

As the City's corrective actions are completed, I will provide further review and verification of compliance. Once the City of Franklin's Nonmetallic Mining Reclamation Program is deemed to be compliant with ch. NR 135, Wis. Adm. Code, this Performance Audit will be closed out.

To begin the process of corrective action, please develop a plan outlining how you will meet the requirements of each category listed in the action table above and submit it to me for review by **October 31, 2025**. I would be happy to set up a virtual meeting to review the findings and action table with you, and to discuss any questions or concerns.

Thank you again for your time and cooperation during the ch. NR 135, Wis. Adm. Code, Performance Audit of the City of Franklin Nonmetallic Mining Reclamation program. It has been a pleasure working with you. Feel free to contact me at (608) 228-1758 or erik.flesch@wisconsin.gov.

Sincerely,



Erik Flesch
Nonmetallic Mining Reclamation Program Specialist
Wisconsin Department of Natural Resources

cc: Kyle McLaughlin, Section Manager – Integration Services
Roberta Walls, Non-Metallic Mining Coordinator

Attachments: NR 135 Regulatory Authority Performance Audit Review Worksheet; Chapter 176: Nonmetallic Mining Reclamation (with comments); Draft of DNR Nonmetallic Mine Reclamation Plan Guidance document and Reclamation Plan Checklist (SS-1206 2021).