



City of Garden Ridge

"A way of life, not just a place to live"

QUARRY COMMISSION REGULAR MEETING MONDAY, SEPTEMBER 10, 2018, 6:00 P.M.

The Garden Ridge City Quarry Commission will meet in a regular session on Monday, September 10, 2018 at 6:00 p.m. in the City Council Chambers, 9400 Municipal Parkway, Garden Ridge, Texas. This is an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted on or before September 7, 2018 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are provided. Requests for accommodations or interpretative services must be made to the City Secretary 48 hours prior to this meeting.

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Citizens Comment Period – limited to 30 minutes total
Rules for Citizens' Participation:

The Quarry Commission welcomes citizen participation and comments at all Quarry Commission Meetings. The Quarry Commission offers citizens the opportunity to address them by signing up to speak prior to the meeting. If you speak, you follow these guidelines:

- a) Respect and courtesy:
 - i. Direct your comments to the entire Quarry Commission, not to an individual member, nor to the audience.
 - ii. Show the Quarry Commission the same respect that you would like to be shown.
 - iii. End your speaking at the time allotted below.
- b) Speaking:
 - i. First citizen comment period
 1. You are required to sign up to speak.
 2. You are limited to one 3 minute period.
 - ii. Business item period
 1. You are required to sign up to speak.
 2. You are limited to one 3 minute period.
 - iii. Second citizen comment period
 1. You are not required to sign up.
 2. You are limited to one 2 minute period.
 - iv. State your name and address before your comments begin.
 - v. You are only allowed to speak once per topic, unless also speaking during a posted Public Hearing.

NOTE: The Texas Open Meetings Act permits a member of the public or a member of the governmental body to raise a subject that has not been included in the notice for the meeting.

*However, any discussion of the subject **must be limited** to a proposal to place the subject on the agenda for a future meeting and any response to a question posed to the Commission is limited to either a statement of specific factual information or a recitation of existing policy. TEX. GOV'T CODE § 551.042.*

5. Business Items

The Commission may discuss, consider/or take possible action on the following items:

- a) Approvals
 - i. Approval of Minutes for July 9, 2018, Quarry Commission Regular Meeting.
 - ii. Expiring terms (September 30, 2018) of Commissioners (Commissioners Holly, DuBois, and Barucky).
 - 1. Discuss eligibility due to term limits.
 - 2. Recommendation to City Council for consideration of reappointment.
- b) Recommendations
 - i. Request from Buckley Powder Co., for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry for the period of October 1, 2018-September 30, 2019.
 - 1. Review request and make recommendation to the City Council.
- c) Discussions/Reports/Reviews
 - i. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratex. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.
 - ii. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.
 - iii. Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibratex and notification to residents of monitor placements. Discuss placement of roving monitor which is currently at the Stewart residence.
- d) Updates
 - i. City Council August 1, 2018, and September 5, 2018, Regular Meeting.
- e) Future Agenda Items.
 - i. Commissioners input for items on upcoming agendas.
 - ii. Update on future education/training sessions and Grapevine articles.
 - iii. Announcement of next Regular Meeting -Monday, November 12, 2018, at 6:00 p.m. at City Hall (Veteran's Day Holiday-move to November 5, 2018).
- f) Education/Training – limited to 20 minutes
 - i. Question and answer session with Vibratex, Hanson and the public.

6. Citizen's Participation: - limited to 20 minutes total
See "Rules for Citizen's Participation" under Item 4.

7. Adjournment

AGENDA NOTICES:

Decorum Required:

Any disruptive behavior, including shouting or derogatory statements or comments may be ruled out of order by the Presiding Officer. Continuation of this type of behavior could result in a request by the Presiding Officer that the individual leave the meeting, and if refused, an order of removal.

Action by Commission Authorized:

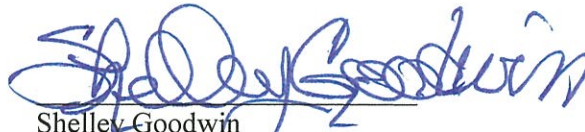
The City Quarry Commission may vote or act upon any item within this Agenda. The Commission reserves the right to adjourn into closed session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Title 5, Chapter 551, of the Texas Government Code.

Executive Sessions Authorized:

This agenda has been reviewed and approved by the City's legal counsel and the presence of any subject in any Executive Session portion of the agenda constitutes a written interpretation of Texas Government Code Chapter 551 by legal counsel for the governmental body and constitutes an opinion by the attorney that the items discussed therein may be legally discussed in the closed portion of the meeting considering available opinions of a court of record and opinions of the Texas Attorney General known to the attorney. This provision has been added to this agenda with the intent to meet all elements necessary to satisfy Texas Government Code Chapter 551.144(c) and the meeting is conducted by all participants in reliance on this opinion.

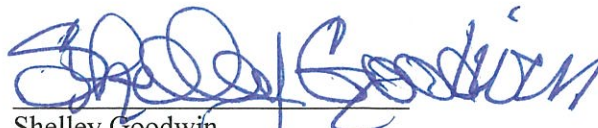
Attendance By Other Elected or Appointed Officials:

It is anticipated that members of the other city boards, commissions and/or committees may attend the meeting in numbers that may constitute a quorum of the other city boards, commissions and/or committees. Notice is hereby given that the meeting, to the extent required by law, is also noticed as a meeting of the City Council, other boards, commissions and/or committees of the City, whose members may be in attendance. The members of the boards, commissions and/or committees may participate in discussions on the same items listed on the agenda, which occur at the meeting, but no action will be taken by such in attendance unless such item and action are specifically provided for on an agenda for that board, commission or committee subject to the Texas Open Meetings Act.



Shelley Goodwin
City Secretary

This is to certify that I, Shelley Goodwin, posted this Agenda at 4:30 p.m. on September 5, 2018, on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.



Shelley Goodwin
City Secretary



City of Garden Ridge

"A way of life, not just a place to live"

**MINUTES
REGULAR MEETING
GARDEN RIDGE QUARRY COMMISSION MEETING
Monday, July 9, 2018 at 6:00 p.m.**

Members Present:

Chair Mike Shands
Commissioner Jerry Barucky
Commissioner Richard Holloway
Commissioner Johnell Holly
Commissioner Albert Haddad
Councilmember Bryan Lantzy, (Ex-officio member)

Member Absent:

Commissioner Mark DuBois
Vice Chair Wayne Mudge

City Staff Present:

Nancy Cain, City Administrator
Shelley Goodwin, City Secretary

Other City Councilmembers or Commissioners Present:

Karen Diaz, Planning and Zoning Commissioner

1. Call to Order :

With a quorum of the Quarry Commission Members present, Mike Shands, Chair, called the regular meeting of the Garden Ridge Quarry Commission to order at 6:02 p.m. on Monday, July 10, 2018, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas 78266.

2. Pledge of Allegiance

Mike Shands, Chair, led the pledge of allegiance.

3. Citizens Comments – Limited to 30 minutes

No one wished to speak.

4. Business Items:

The Quarry Commission may discuss, consider, and /or take possible action for possible recommendation to the City Council for the following items:

a) Approvals

i. Approvals of Minutes for May 14, 2018, Quarry Commission Regular Meeting.

Motion: A motion was made by Commissioner Holloway, seconded by Commissioner Haddad, to approve the May 14, 2018 Regular Quarry Commission Meeting Minutes. The Quarry Commission voted four (4) for, none (0) opposed. The motion carried unanimously.

b) Recommendations

- i. Request from Orica USA, Inc. for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry for the period of October 1, 2018-September 30, 2019.**
 - a. Review request and make recommendation to the City Council.**

The Commission discussed and reviewed the permit application submitted from Orica for a Partial Exemption Permit to conduct blasting activities at Hanson Quarry. They also discussed the bonding insurance.

Nancy Cain, City Administrator, stated the Partial Exemption Permit is for the period of October 1, 2018 – September 30, 2019. She stated the Commission is required to review the documents and make a recommendation to the City Council, who will set the Partial Exemption Permit fee.

Motion: Upon motion made by Commissioner Haddad and seconded by Commissioner Barucky, to recommend to City Council the approval of the request from Orica USA, Inc. for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry for the period of October 1, 2018-September 30, 2019. The Quarry Commission voted four (4) for, none (0) opposed. The motion carried unanimously.

c) Discussions/Reports

- i. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratex. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.**

Nicholas Reitinger, Vibra-Tech, presented and discussed the May blast analysis. He stated that twenty (20) blasts occurred during the month of March and none of the blasts exceeded the limits of Ordinance 34. The highest ppv readings occurred on May 11, 2018, in South Wall 3C, with 0.248 ppv, at the Warden residence. He also reported the air overpressure of 120.0 dB, recorded at the Holly residence.

Mr. Reitinger, then presented and discussed the June blast analysis. He stated that twenty-three (23) blasts occurred during the month of June and one of the blasts exceeded the limits of Ordinance 34. The highest ppv readings occurred on June 14, 2018, in the Upper 1 C, with 0.310 ppv. The strongest air blast occurred on June 13, 2018, in Bench 5B, with an air overpressure of 129.0 dB recorded at the Warden residence.

- ii. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.**

Nicholas Reitinger, Vibra-Tech, discussed the citizen blast reports received for the months of May and stated there were none for June. During the discussion it was discovered that the June Blast Reports was not received by Vibra-Tech.

The Commission asked for the June reports be forwarded to Vibra-Tech and the discussion of those report be held at the September Regular Meeting. The Commission also asked that the videos and

additional information of the May and June shots be presented at the September Regular Meeting. They also discussed the Ordinance 34 violation.

Nolan Eckroade, Orica explained what happened to the blast June that created the violation to Ordinance 34. He stated there was an unknown pocket which they believe created the violation.

The Commission asked to view the video of the blast at their September regular meeting.

iii. Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibratex and notification to residents of monitor placements. Discuss placement of roving monitor which is currently at the Stewart residence (5/14/18 to 6/13/18).

No requests were made for the roving monitor. The monitor will stay at the Stewart residence.

d) Updates

i. City Council June 6, 2018 and July 5, 2018, Regular Meeting.

Nancy Cain, City Administrator, reported that there were no Quarry Commission recommendations brought forward to the City Council for consideration.

e) Future Agenda Items.

i. Commissioners input for items on upcoming agendas

The Commissioners had no additional items to add to the upcoming agendas.

ii. Update on future education/training sessions and Grapevine articles.

The Commission requested that another "question and answer" open forum be held at the next meeting rather than a specific training session.

Commissioner Barucky agreed to continue to write the Quarry Commission articles for the Grapevine.

iii. Announcement of next Regular Meeting -Monday, September 10, 2018, at 6:00 p.m. at City Hall.

Mike Shands, Chair, announced the next Regular Meeting will be held on Monday, September 10, 2018 at 6 p.m. at City Hall.

f) Education/Training – limited to 20 minutes

i. Question and answer session with Vibra Tech, Hanson and the public.

The Commission discussed the possibility of monitors being placed inside homes, the Vulcan Quarry, and weather effects on blasts.

5. Citizen's Participation - Limited to 20 minutes

Karen Diaz, 21010 Gunther Grove, spoke regarding the blasts at the Quarry and how they are getting better or residents are getting use to them.

6. Adjournment:

There being no further business, the Monday, July 9, 2018 Garden Ridge Quarry Commission regular session was adjourned at 7:08 p.m. Mike Shands, Chair.

Mike Shands
Chair

ATTEST

Shelley Goodwin
City Secretary

QUARRY COMMISSION

Name	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires	Appt/ Expires
Mike Shands	Jan 14 Sep 15	Sep 15 Sep 17	Sep 17 Sep 19						
Albert Haddad	Oct 15 Sep 17	Sep 17 Sep 19							
Richard Holloway	Apr 04 Sep 05	Sep 05 Sep 07	Sep 07 Sep 09	Sep 09 Sep 11	Sep 11 Sep 13	Sep 13 Sep 15	Sep 15 Sep 17	Sep 17 Sep 19	
Mark DuBois	Sep 16 Sep 18								
Wayne Mudge	Oct 07 Sep 09	Sep 09 Sep 11	Sep 11 Sep 13	Sep 13 Sep 15	Sep 17 Sep 19				
Johnell Holly	Sep 08 Sep 10	Sep 10 Sep 12	Sep 12 Sep 14	Sep 14 Sep 16	Sep 16 Sep 18				
Jerry Barucky	Sep 14 Sep 16	Sept 16 Sep 18							

Quarry Commission Attendance

Commissioner	01/08/2018	3/12/18	5/14/18	7-9-18	9-10-18	11-5-18
Shands	P	P	P	P		
Barucky	P	P	P	P		
DuBois	P	P	P	VAA		
Haddad	P	P	P	P		
Holloway	P	P	VAA	P		
Holly	P	P	P	P		
Mudge		P	P	VAA		

P	Present
	Present but quorum not met
P-QNM	Excused for reasons allowed in Ord. 210
E	Voluntary Announced Absense
VAA	Unannounced Absence
UA	Not member yet

Quarry Commission's Attendance at City Council Regular Meeting

[illegible]



Buckley Powder Co.

A Dyno Nobel Distributor

P.O. Box 1358 Georgetown, TX 78628 USA Telephone 512-869-0287 Fax: 512-819-9906

DYNO
Dyno Nobel

July 23, 2018

City Administrator
City of Garden Ridge
9400 Municipal Parkway
Garden Ridge, TX 78266

To whom it may concern:

Buckley Powder Company would like to be considered for a Partial Exemption Permit with the City of Garden Ridge. We have four gentlemen that will be our representatives for the purpose of this application, Mr. Steve Davis, Mr. Riley Pumphrey, Mr. Rich Weaver and Mr. Dustin Althoff. The complete contact information for these gentlemen is as follows:

Steve Davis, Health & Safety Manager (512) 818-7731
steved@buckleypowder.com

Riley Pumphrey, General Manager (512) 864-4185
riley.pumphrey@buckleypowder.com

Rich Weaver, Senior Technical Representative (830) 708-2511
richw@buckleypowder.com

Dustin Althoff, Technical Representative (512) 229-7894
dustin.althoff@buckleypowder.com

Buckley Powder Company
6305 N. IH-35
New Braunfels, TX 78130

Buckley Powder will be blasting for the crushed stone operation of Lehigh Hanson Aggregates for the 2019 fiscal year. If you have any questions or concerns, please feel free to contact either Mr. Davis or Mr. Weaver.

Sincerely,

Steve Davis
Health & Safety Manager



Buckley Powder Co.

A Dyno Nobel Distributor

P.O. Box 1358 Georgetown, TX 78628 USA Telephone 512-869-0287 Fax: 512-819-9906

DYNO
Dvno Nobel

TO: City of Garden Ridge

CC: Riley Pumphrey, Dustin Althoff, Joe Crownover

From: Steve Davis
Health & Safety Manager
Buckley Powder Company

Date: July 23, 2018

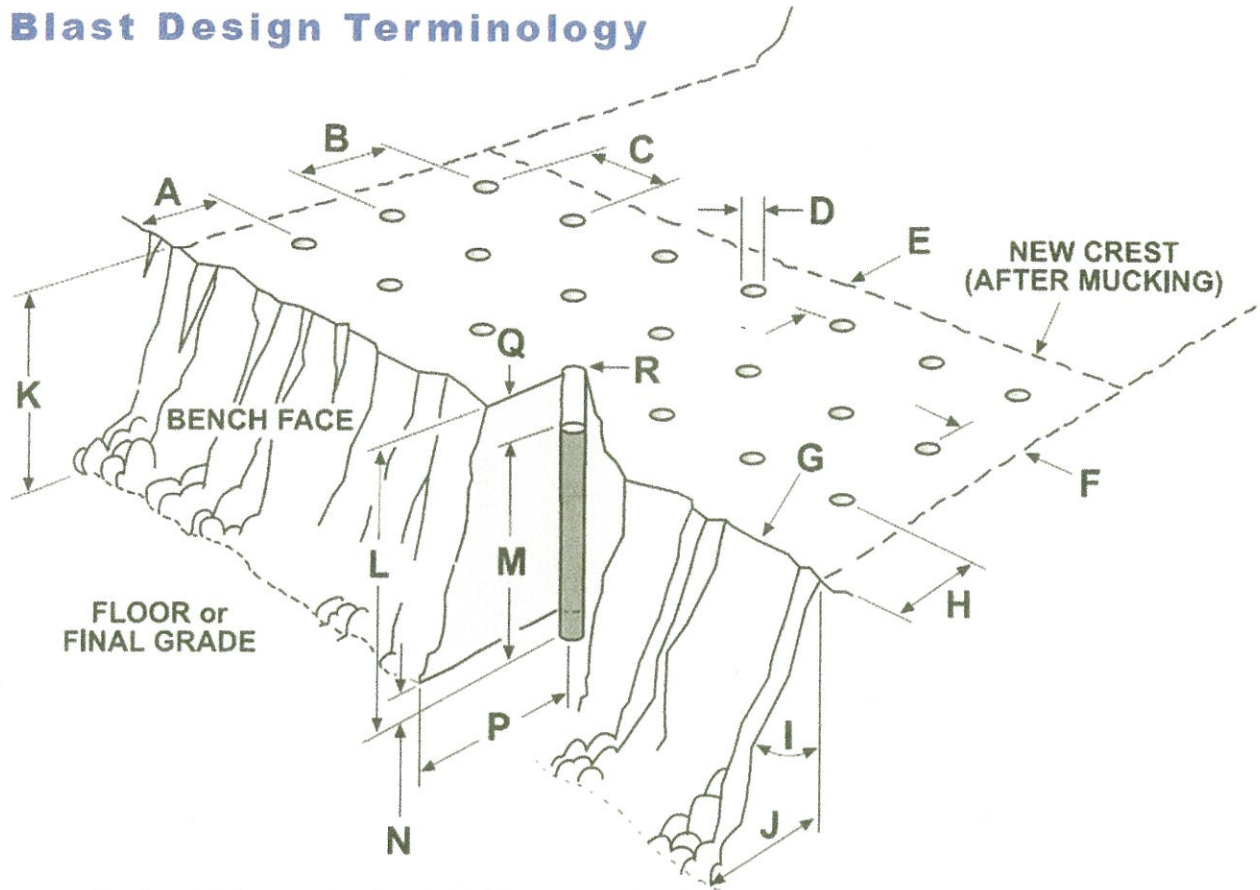
Included with this packet is a copy of the Buckley Powder Blasting Standard Operating Procedures. This document is very specific as to the proper procedures required to provide optimum results for our customer while also providing a safe environment for Buckley Powder employees, those employed by our customer, and the surrounding community. All Buckley Powder blasters are required to attend at least 40 hours of classroom training and testing to ensure they have a complete understanding of these procedures. Along with classroom training, they are provided extensive field training before ever actually being assigned duties as a lead blaster.

All Buckley Powder Blasters must successfully complete the Open Pit Blaster Training. This course provides a thorough understanding of the fragmentation process and how to minimize vibration and air over pressure which may affect the surrounding community. Blasters are taught all calculations necessary to safely obtain the production goals of the customer while minimizing the environmental effects. Once again they must pass written tests in the classroom and are audited in the field to ensure they are following these calculations and procedures. As new and improved techniques are introduced to the industry, blasters are brought in to be trained on the new information as well as refreshed on previous topics.

Buckley Powder now blasts approximately 30,000,000 tons of rock per year in the San Antonio – New Braunfels area. Our blasters and technical staff are very familiar with the geological abnormalities which must be addressed to keep environmental effects to a minimum. The included documents are quite lengthy – so we will list below the typical process involved for blasting in the Edwards Aquifer area.

Included on the next page is an illustration of a typical bench to be blasted and the terminology for many of the parameters considered in the design of the blast.

Blast Design Terminology



A	Hole - to - Crest	G	Crest	M	Explosive Column Height
B	Apparent Burden*	H	Crest Burden	N	Subdrilling
C	Apparent Spacing*	I	Bank Angle	P	Toe Burden
D	Hole Diameter	J	Toe	Q	Stemming Height
E	Back Break	K	Bench Height	R	Collar
F	Side Break	L	Hole Depth		

* True Burden and True Spacing may be different than Apparent Burden and Apparent Spacing due to delay pattern.

We teach our blasters that there are four things which occur when rock is blasted :

- The rock is broken or fragmented
- There is a heaving affect
- Vibration is created
- Air overpressure is created

If a blast is properly designed, the energy of the explosives will be used to do the first two in the list and there will be less energy left to create vibration and air overpressure. Thus the correct pattern to properly distribute the energy through the rock is the first important consideration. We know from experience how many pounds of explosives per cubic yard or ton of rock (powder factor) will give satisfactory fragmentation. If we under load a blast, it may actually create higher vibration. Extensive research calculations have been developed which aids in predicting vibration at a given distance based on the pounds of explosives detonated at 8 millisecond intervals. Based on the two above factors a blast pattern can be determined.

Laying out the blast pattern

As illustrated in the diagram, previous blasting will create a face which many times will be irregular; depending on the local geology. A two dimensional laser profiler will be used to determine at what distance from the crest holes should be placed in order to have the proper burden (amount of rock in front of the hole). There will be times when geological abnormalities may be observed and require the holes to have additional burden placed on them in order to minimize any venting of energy through the various seams; which may increase air overpressure. If this is necessary the spacing between holes in this row will be reduced to maintain the proper powder factor. The location of each hole is marked by the blaster.

Drilling

The driller will be given documentation of the pattern. This will include a diagram of the hole locations. The required depth of the holes will be indicated. Depths are determined from the initial data from the laser profiler. In order to properly break the rock at the bottom of the hole, the holes will be drilled slightly deeper than the actual bench height. In areas of vibration concern, this subdrill should be kept to a minimum. Excessive subdrill tends to increase vibration due to the over confinement in this area of the blast. The driller will be asked to provide a log of each hole. These logs will provide information concerning variations in geology; with the depths of these variations noted. This is very important data which aids the blaster in making determinations on how the hole should be loaded.

Loading the blast pattern

Before the blast is loaded, a three dimensional auto scan laser profiler will be used. This unit allows the exact location of each hole to be surveyed. It then can be set up to scan the face and collect upwards of 100,000 data points. If there are any "divots" in the face that requires more refinement of resolution, additional points can be scanned in that area. Various reports will be generated from the data, which will aid the blaster in determining what must be done to eliminate problems (examples included at the end). The most important of these reports are the actual profiles of each front row borehole. These profiles show the exact burden in front of the hole. The software can also be set to look a predetermined distance on either side of the hole for any lesser burdens which might be influenced by this hole. With these reports in hand, the blaster will visually examine the

face one more time and make notes on the print outs of any variations in the loading which should take place.

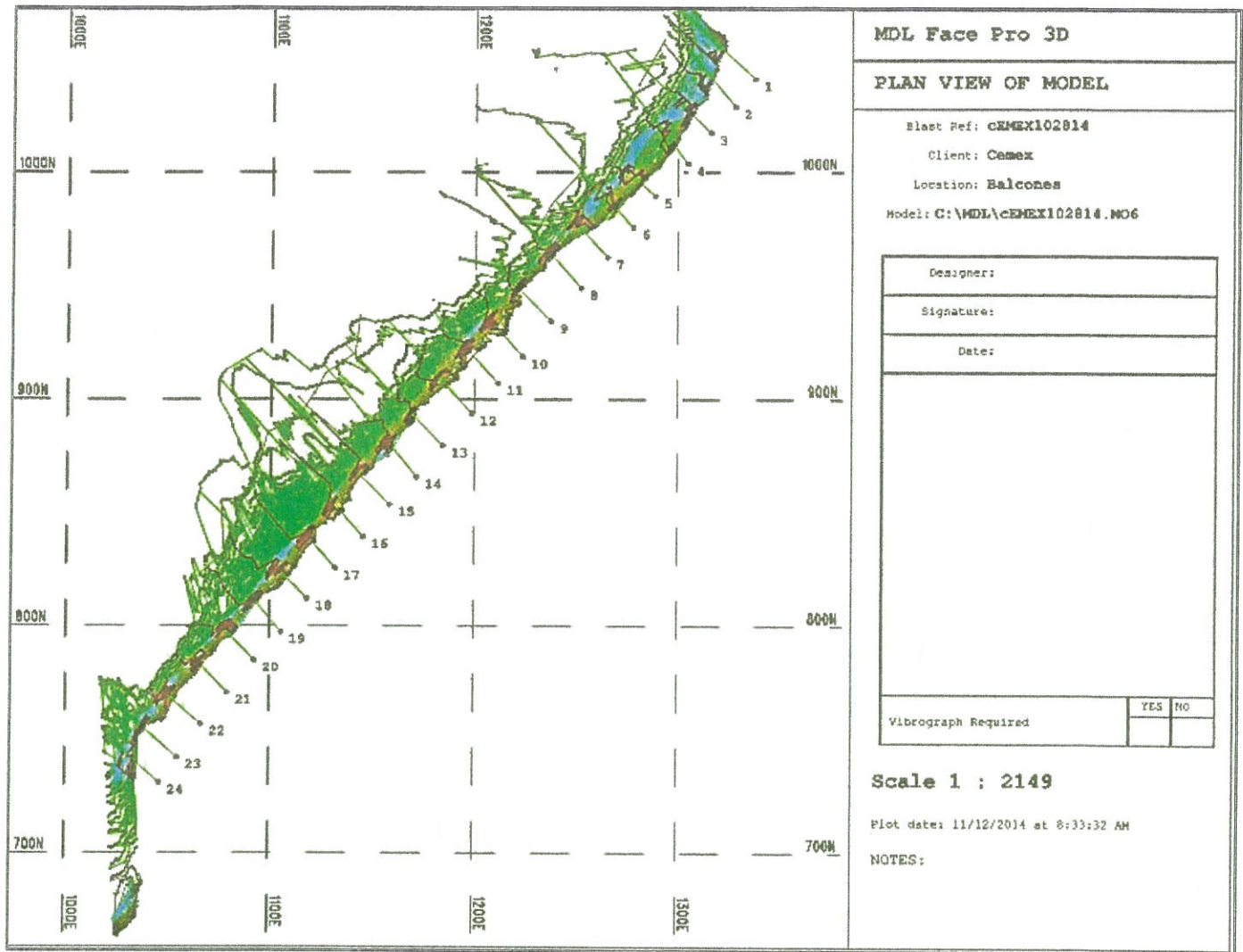
All holes will be checked for proper depth. If any have excessive subdrill which may increase vibration, they will be backfilled to the proper depth. Detonators and cast boosters will be placed in the holes as needed and the hole will be loaded with bulk explosives. The blaster will monitor the rise of the product in the hole. If there are any abnormalities such as cracks and voids the powder will stop rising and the blaster will immediately stop to address the issue. In most cases an inert material such as crushed stone will be placed in this area of the borehole to avoid the accumulation of excess explosives. Trucks are equipped with meters as an added check to ensure the proper amount of explosives is being placed in each hole. In the cases where a full column may be too large to maintain the desired vibration level; the load in the hole may be divided into smaller charges separated by inert material. These smaller charges will be timed to detonate separately to reduce vibration. If seams of softer material or clay have been noted on drill logs or observed by the blaster as he inspects the face; inert material will be placed in that area of the column to prevent venting which may increase air overpressure and noise. The powder column will be stopped at a predetermined distance from the top of the hole. This is called the stemming area and will be filled with crushed stone to create confinement at the surface.

Electronic Detonators

The development of electronic detonators has greatly improved the ability of our industry to reduce vibration from blasting. The accuracy of these detonators has allowed us to be very predictive as to our end results. Software has been developed which allows us to blast one hole, collect the vibration data; apply that data to a multiple hole scenario; and with a fair amount of accuracy predict what the results will be from that blast. The software we have allows us to enter the exact parameters of a particular blast pattern, and see what the vibration should be based on various timing sequences. Though our vibration levels are never close to a level which will do damage to a structure, we can many times find a sequence which is less perceivable and acceptable to the community.

Conclusion

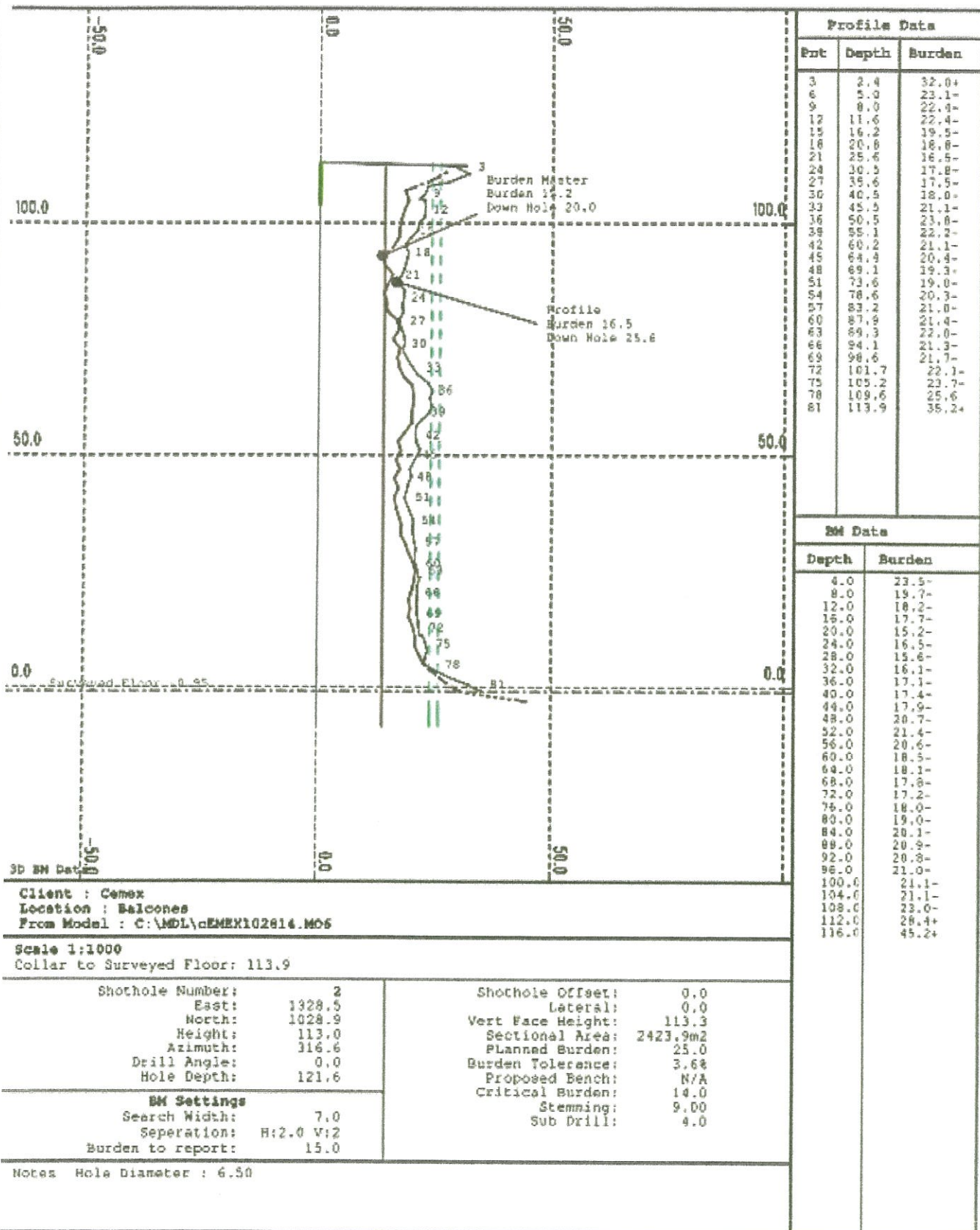
There are few places left where our customers have not had developments build around them. Buckley Powder has been very successful helping those customers deal with community concerns. We take great pride in our education program for our personnel concerning safety and technology. If you have further questions concerning our procedures, please contact us.



Aerial view of blast pattern created from 3D profile software

MDL Face Pro 3D

Shothole No: 2



Profile of a blasthole. Burden master data is from searching 7' on either side of hole



BUCKPOW-01

OMOHLE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

06/25/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER JLT Specialty Insurance Services Inc. 5847 San Felipe St. Suite 2800 Houston, TX 77057	CONTACT NAME: Olivia Mohle	
	PHONE (A/C, No, Ext): (713) 325-7633	FAX (A/C, No):
	E-MAIL ADDRESS: Olivia.Mohle@jltus.com	
INSURED Buckley Powder Co. 42 Inverness Dr. East Englewood, CO 80112	INSURER(S) AFFORDING COVERAGE	
	INSURER A: Starr Indemnity & Liability Company	
	INSURER B: American Guarantee and Liability Insurance Company	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☒ POLICY ☐ PRO-JECT ☐ LOC OTHER:			1000090348181	07/01/2018	07/01/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	☒ AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY			1000198724181	07/01/2018	07/01/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE DED RETENTION \$			AUC 3793061-10	04/01/2018	04/01/2019	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
A	☒ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	1000002255	07/01/2018	07/01/2019	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Subject always to policy terms, conditions and exclusions, Certificate Holder is named as Additional Insured (excluding Workers' Compensation and Employers' Liability) but only to the extent of risks and liabilities assumed by the Named Insured in a signed written contract.

CERTIFICATE HOLDER

CANCELLATION

City of Garden Ridge
9400 Municipal Parkway
Garden Ridge, TX 78266

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

JLT Specialty Insurance Services Inc.

Federal Explosives License/Permit
(18 U.S.C. Chapter 40)

U.S. GOVERNMENT PRINTING OFFICE: 2010 O 501236

In accordance with the provisions of Title XI, Organized Crime Control Act of 1970, and the regulations issued thereunder (27 CFR Part 555), you may engage in the activity specified in this license or permit within the limitations of Chapter 40, Title 18, United States Code and the regulations issued thereunder, until the expiration date shown. **THIS LICENSE IS NOT TRANSFERABLE UNDER 27 CFR 555.53.** See "WARNINGS" and "NOTICES" on reverse.

Direct ATF ATF - Chief, FELC
Correspondence To 244 Needy Road
 Martinsburg, WV 25405-9431

License/Permit
Number

5-TX-091-20-9J-01236

Chief, Federal Explosives Licensing Center (FELC)

Expiration
Date

September 1, 2019

Name
BUCKLEY POWDER CO

Premises Address (Changes? Notify the FELC at least 10 days before the move.)

6305 1H 35 NORTH
NEW BRAUNFELS, TX 78130-

Type of License or Permit

20-MANUFACTURER OF EXPLOSIVES

Purchasing Certification Statement

The licensee or permittee named above shall use a copy of this license or permit to assist a transferor of explosives to verify the identity and the licensed status of the licensee or permittee as provided by 27 CFR Part 555. The signature on each copy must be an original signature. A faxed, scanned or e-mailed copy of the license or permit with a signature intended to be an original signature is acceptable. The signature must be that of the Federal Explosives Licensee (FEL) or a responsible person of the FEL. I certify that this is a true copy of a license or permit issued to the licensee or permittee named above to engage in the business or operations specified above under "Type of License or Permit."

Mailing Address (Changes? Notify the FELC of any changes)

BUCKLEY POWDER CO
42 INVERNESS DRIVE EAST
ENGLEWOOD, CO 80112-

Licensee/Permittee Responsible Person Signature

Position Title

Printed Name

Date

Previous Edition is Obsolete BUCKLEY POWDER CO 6305 1H 35 NORTH, NEW BRAUNFELS, TX 78130 5-TX-091-20-9J-01236 September 1, 2019 20-MANUFACTURER OF EXPLOSIVES

ATF Form 5400.14 5400.15 Part I
Revised October 2011

Federal Explosives License (FEL) Customer Service Information

Federal Explosives Licensing Center (FELC)
244 Needy Road
Martinsburg, WV 25405-9431

Toll-free Telephone Number (877) 283-3352
Fax Number (304) 616-4401
E-mail FELC@atf.gov

ATF Homepage www.atf.gov

Change of Address (27 CFR 555.54(a)(1)). Licensees or permittees may during the term of their current license or permit remove their business or operations to a new location at which they intend regularly to carry on such business or operations. The licensee or permittee is required to give notification of the new location of the business or operations not less than 10 days prior to such removal with the Chief, Federal Explosives Licensing Center. The license or permit will be valid for the remainder of the term of the original license or permit. (The Chief, FELC, shall, if the licensee or permittee is not qualified, refer the request for amended license or permit to the Director of Industry Operations for denial in accordance with § 555.54.)

Right of Succession (27 CFR 555.59): (a) Certain persons other than the licensee or permittee may secure the right to carry on the same explosive materials business or operations at the same address shown on, and for the remainder of the term of, a current license or permit. Such persons are: (1) The surviving spouse or child, or executor, administrator, or other legal representative of a deceased licensee or permittee, and (2) A receiver or trustee in bankruptcy, or an assignee for benefit of creditors. (b) In order to secure the right provided by this section, the person or persons continuing the business or operations shall furnish the license or permit for that business or operations for endorsement of such succession to the Chief, FELC, within 30 days from the date on which the successor begins to carry on the business or operations.

(Continued on reverse side)

Cut Here ✂

Federal Explosives License/Permit (FEL) Information Card

License/Permit Name: BUCKLEY POWDER CO

Business Name

License/Permit Number 5-TX-091-20-9J-01236

License/Permit Type 20-MANUFACTURER OF EXPLOSIVES

Expiration September 1, 2019

Please Note: Not Valid for the Sale or Other Disposition of Explosives



04/09/2018

NOTICE OF CLEARANCE

for individuals transporting, shipping, receiving, or possessing explosive materials.

ISSUED TO: BUCKLEY POWDER CO

Federal Explosives license/permit nu 5-TX-091-20-9J-01236

NOTICE DATE: 04/09/2018

Expiration Date September 1, 2019

EXPIRATION DATE: This Notice expires when superseded by a newer Notice which will list all current responsible persons and employee possessors, or when the license or permit expires - whichever comes first.

Explosives License/Permit Type 20-MANUFACTURER OF EXPLOSIVES

- WARNING.** Only those individuals listed below as **RESPONSIBLE PERSONS** and **EMPLOYEE POSSESSORS** with a background clearance status of "CLEARED" or "PENDING" are authorized to transport, ship, receive, or possess explosive materials in the course of employment with you.
- "DENIED" STATUS.** If an employee possessor has a background clearance status of "DENIED", you **MUST** take immediate steps to remove the employee from a position requiring the transporting, shipping, receiving, or possessing of explosive materials. Also, if the employee has been listed as a person authorized to accept delivery of explosive materials, you **MUST** remove the employee from such list and immediately, and in no event later than the second business day after such change, notify distributors of such change, as stated in 27 CFR 555.33(a).
- CHANGE IN RESPONSIBLE PERSONS.** You **MUST** report any change in responsible persons to the Chief, Federal Explosives Licensing Center, within 30 days of the change and new responsible persons **MUST** include "appropriate identifying information" as defined in 27 CFR 555.11. Fingerprints and photos are **NOT** required, however they will be required upon renewal of the license or permit.
- CHANGE OF EMPLOYEES.** You **MUST** report any change of employee/possessors to the Chief, FELC, within 30 days. Reports relating to newly hired employees must be submitted on ATF Form 5400.28 for EACH employee.

Premises Address: 6305 IH 35 NORTH
NEW BRAUNFELS, TX 78130

Mailing Address:

BUCKLEY POWDER CO
42 INVERNESS DRIVE EAST
ENGLEWOOD, CO 80112

This 'Notice of Clearance' is provided to you as required by 18 U.S.C. 843(h) and **MUST** be retained as part of your permanent records and be made available for examination or inspection by ATF officers as required by 27 CFR 555.121. If you receive a Notice subsequent to this Notice, this Notice will no longer be valid.

In accordance with 27 CFR 555.33, Background Checks and Clearances, and 27 CFR 555.57, Change of Control, Change in Responsible Persons, and Change of Employees, ATF's Federal Explosives Licensing Center (FELC) has conducted background checks on the individual(s) you identified as a responsible person(s) and an employee/possessor(s) on your application, or reported after the issuance of your license/permit.

The following is a SUMMARY of the results of the background checks conducted on the individuals you reported as responsible persons and employee/possessors. ATF will be notifying ALL individuals listed on this document of their respective status by separate letter mailed to their residence address.

PLEASE BE ADVISED THAT IT IS UNLAWFUL FOR ANY PERSON REFLECTING A STATUS OF "DENIED" TO TRANSPORT, SHIP, RECEIVE, OR POSSESS EXPLOSIVE MATERIALS.

Please carefully review this Notice to ensure that all the information is accurate. If this Notice is incorrect, please return the Notice to the Chief, FELC, with a statement showing the nature of the error(s). The Chief, FELC, shall correct the error, and return a corrected Notice.

Number of RESPONSIBLE PERSON(S) : 7

Number of EMPLOYEE POSSESSOR(S): 29

LAST NAME, First Name, Middle Name

Clearance Status

RESPONSIBLE PERSONS:

7

0001 ADAMS, LANCE HENRY
0002 BRETZING, STEPHEN KARL
0003 BUCKLEY, RAYMOND LEE JR
0004 BUCKLEY, STEVE LEE
0005 HERMAN, SCOTT EDWARD
0006 MEDLIN, JASON SCOTT
0007 PUMPHREY, JAY ROY

Cleared
Cleared
Cleared
Cleared
Cleared
Cleared
Cleared

continued

LAST NAME, First Name, Middle Name
EMPLOYEE POSSESSORS:

Clearance Status

29

0001 ALTHOFF, DUSTIN JAMES
0002 BATES, DUSTIN WARREN
0003 BORO, DARRYL JOSEPH
0004 BROWN, BRADLEY EUGENE
0005 CATES, JOSHUA LEE
0006 CORTEZ, ISAAC
0007 DAVIS, STEVEN EDWARD
0008 DIRST, SETH RUSTIN
0009 ESPINOZA, DARRELL JIM

Cleared
Cleared
Cleared
Cleared
Cleared
Cleared
Cleared
Cleared
Cleared

NOTICE OF CLEARANCE

04/09/2018

for individuals transporting, shipping, receiving, or possessing explosive materials.

NOTICE DATE: 04/09/2018

EXPIRATION DATE: This Notice expires when superseded by a newer Notice which will list all current responsible persons and employee possessors, or when the license or permit expires - whichever comes first.

This 'Notice of Clearance' is issued to: BUCKLEY POWDER CO
Federal Explosives license/permit no.: 5-TX-091-20-9J-01236
Explosives License/Permit Type : 20-MANUFACTURER OF EXPLOSIVES
Expiration Date : September 1, 2019

6305 IH 35 NORTH
NEW BRAUNFELS, TX 78130

continued from previous page

LAST NAME, First Name, Middle Name **Clearance Status**

LAST NAME, First Name, Middle Name **Clearance Status**

0010 HADLEY, JOSHUA LOUIS	Cleared
0011 HOPE, JASON LANCE	Cleared
0012 MARRS, JILL	Cleared
0013 MIMS, JOHN J	Cleared
0014 MIRABELLI, LAWRENCE JOHN	Cleared
0015 MITCHELL, DERIK CHANTZ	Cleared
0016 MITCHELL, ETHAN CHASE	Cleared
0017 OREAR, RYAN RANDAL	Cleared
0018 OUMA, ROY O	Cleared
0019 PENA, EDWARD DOUGLAS II	Cleared
0020 PUMPHREY, ADRIAN RILEY	Cleared
0021 SCHUCH, RODNEY ALBERT	Cleared
0022 SNIDER, CLINTON DAVID	Cleared
0023 STAUFFER, LANE DOSS	Cleared
0024 VALDEZ, JACOB BENNETT	Cleared
0025 WALDROP, DIANN RACHELLE	Cleared
0026 WEAVER, RICHARD ALLEN	Cleared
0027 WEIR, CHRISTOPHER FRANKLIN	Cleared
0028 WILLIAMS, JOSHUA CHAD	Cleared
0029 EMBRY, TRENT OLIN	Pending



Hanson Aggregates
Servtex Quarry

July 13, 2018

Nancy Cain
City Administrator
City of Garden Ridge
9500 Municipal Parkway
Garden Ridge, Texas, 78266-2600

RE: Buckley Powder Application for a Partial Exemption Permit for Blasting in October 2018 through September 2019.

Nancy,

We have asked Buckley Powder to pursue obtaining a Partial Exemption Permit for Blasting within the City Limits of Garden Ridge per Ordinance 34 for the fiscal year of 2019. We will assist with any necessary documentation for the permit. If there is any questions or concerns, please contact me directly at Hal.Halamuda@LehighHanson.com or my office phone (210) 658-7461

Best Regards



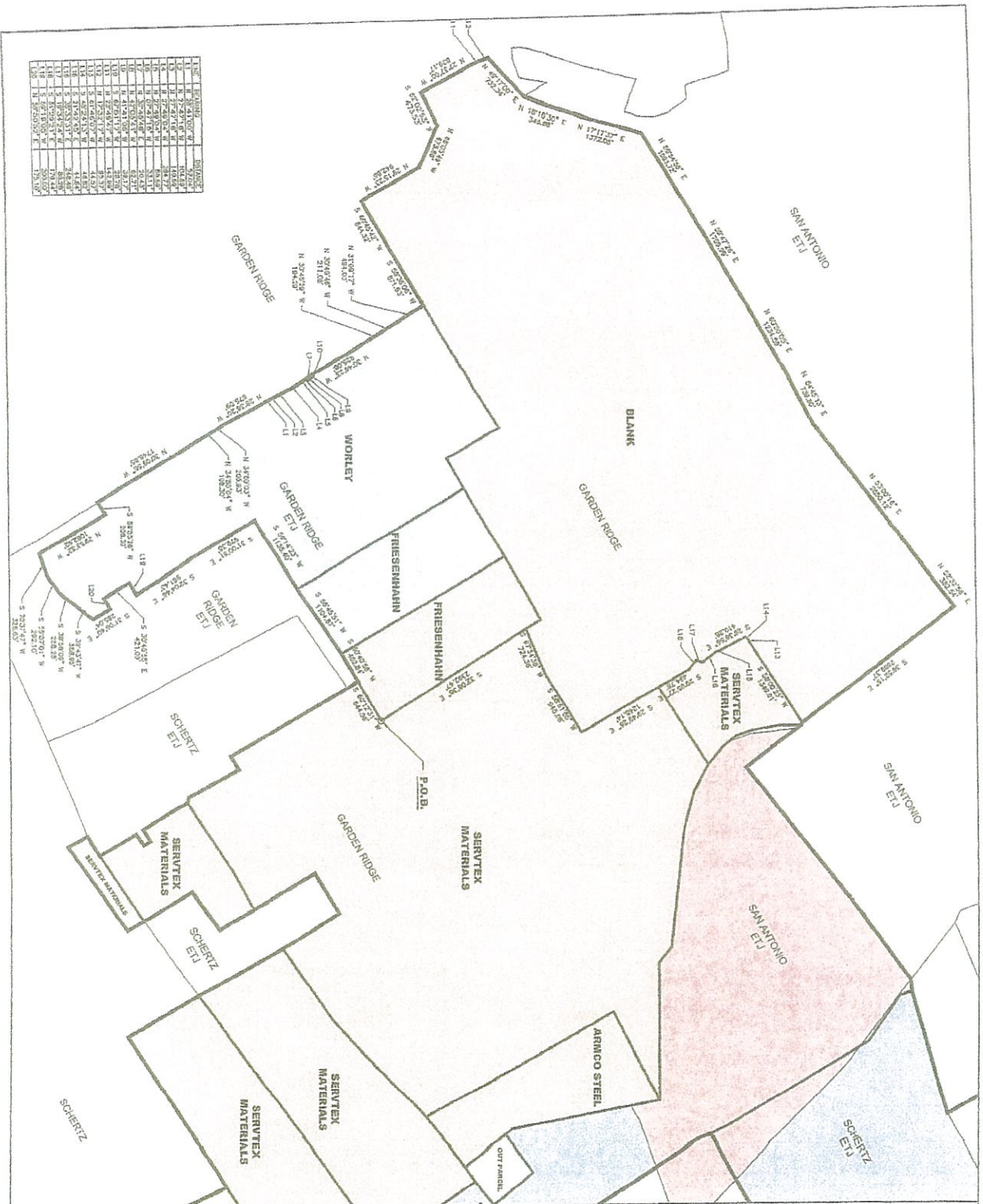
Hal Halamuda

CC: Pierre Levesque, Buckley Powder

Sworn to and subscribed before me by Hal Halamuda, on this the 13th day of July, 2018.



Kalley McCartney
Notary Public in and for
The State of Texas



GRAPHIC SCALE:
1" = 100'

LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- GARDEN RIDGE
- GARDEN RIDGE - ETJ
- SCHERTZ
- SCHERTZ - ETJ
- SAN ANTONIO - ETJ

PROPERTY MAP WITH METES & BOUNDS FOR PARTIAL EXEMPTION PERMIT FOR BLASTING

LEHIGH HANSON REGION SOUTH SERVETEX QUARRY COMAL COUNTY, TEXAS

Lehigh Hanson
HEIDELBERGCEMENT Group

THIS MAP WAS PREPARED BY THE LEHIGH HANSON REGION SOUTH SERVETEX QUARRY, COMAL COUNTY, TEXAS, FOR THE PURPOSE OF OBTAINING A PARTIAL EXEMPTION PERMIT FOR BLASTING. THE MAP IS BASED ON A SURVEY OF THE PROPERTY BY THE LEHIGH HANSON REGION SOUTH SERVETEX QUARRY, COMAL COUNTY, TEXAS, ON 10/10/2011. THE SURVEY WAS CONDUCTED BY THE LEHIGH HANSON REGION SOUTH SERVETEX QUARRY, COMAL COUNTY, TEXAS, AND THE RESULTS WERE PROVIDED TO THE LEHIGH HANSON REGION SOUTH SERVETEX QUARRY, COMAL COUNTY, TEXAS, FOR THE PURPOSE OF OBTAINING A PARTIAL EXEMPTION PERMIT FOR BLASTING. THE MAP IS BASED ON A SURVEY OF THE PROPERTY BY THE LEHIGH HANSON REGION SOUTH SERVETEX QUARRY, COMAL COUNTY, TEXAS, ON 10/10/2011. THE SURVEY WAS CONDUCTED BY THE LEHIGH HANSON REGION SOUTH SERVETEX QUARRY, COMAL COUNTY, TEXAS, AND THE RESULTS WERE PROVIDED TO THE LEHIGH HANSON REGION SOUTH SERVETEX QUARRY, COMAL COUNTY, TEXAS, FOR THE PURPOSE OF OBTAINING A PARTIAL EXEMPTION PERMIT FOR BLASTING.

[illegible]

Lehigh Hanson
HEAVY CONSTRUCTION GROUP

Also, include with your letter, the attachments identified below:

- 1) Identifying all real property where the activity of Blasting shall be conducted by street address (if any) and legal description. Any property not listed will not be included in any permit, if authorized. If multiple properties are to be considered, and some are not within the City limits, but is within the City's extra-territorial jurisdictional limits, please include each property in the list but designate the property with the comment: "ETJ Property".
- 2) A plan view drawing completed under seal by a licensed professional surveyor or civil engineer to appropriate scale, showing all properties listed for inclusion into the Partial Exemption Permit for Blasting.
- 3) If you are not the owner of the real property, a letter from the Owner executed before a notary, that they are the owner of the property and authorize blasting activities on the property.
- 4) Documentation and facts demonstrating that the Requestor's Blasting operation is going to be conducted in a manner that minimizes its related adverse impact on property value, other land use development, the economy, employment, property taxes and the public and communities who live and work adjacent to such land use. Please specifically list all steps taken, such as distance limitations related to adjacent properties, use of berms and any dust and noise remediation efforts, etc.
- 5) Documents and facts demonstrating efforts by designee to protect and mitigate the perceived negative adverse affects such activity has on real property values, public safety, health & welfare interests, including the quality of life within the City, neighboring properties and the public.
- 6) Payment of the appropriate application fee, including any related City fees for monitoring blasting for each permitted Partial Exemption Permit site.

All applications for Partial Exemption Permits to conduct Blasting activities shall be submitted for review at the next regularly scheduled Quarry Commission meeting if received 14 days prior to the date of the meeting. The Commission shall determine whether the request is complete. If incomplete, the City shall inform the designee what aspects of the application are insufficient and will provide the designee seven (7) business days to supplement and/or modify the application to permit it to be placed for City Council consideration as a completed application.

If the application meets all criteria provided by the ordinance as determined by the Commission, or by subsequent supplementation as provided in the determination of the Chair of the Commission, the permit request shall be scheduled for City Council action as provided below for complete applications. Any application considered incomplete shall not be considered for approval by City Council. Any application that remains incomplete for a period of more than 60 days shall be considered withdrawn.

If the request is found complete, the City Administrator shall place the matter on the next regular City Council meeting agenda for action (but may include it on an agenda for a specially called meeting at her discretion). If the City Council approves the permit, the City Administrator shall issue a Partial Exemption Permit to the Requestor, which is not transferable or assignable and is revocable if the permit holder is found to repeatedly violate the blasting regulations under the ordinance or fail to pay any related fees.

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JULY 2018

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
07/02/18	07/02/2018 3D	N 29° 38' 50.4" W 098° 17' 45.2"	SUNNY *° S 8	13:49	0.055	8.1	101.0	954	200.00	2,918	City Property Line
07/02/18	07/02/2018 3D	N 29° 38' 50.4" W 098° 17' 45.2"	SUNNY *° S 8	13:49	0.073	9.4	103.0	954	200.00	2,934	Johnson Residence
07/02/18	07/02/2018 3D	N 29° 38' 50.4" W 098° 17' 45.2"	SUNNY *° S 8	13:49	0.075	9.6	89.0	954	200.00	3,018	Michels - 9118 Tuscan Hills
07/02/18	07/02/2018 3D	N 29° 38' 50.4" W 098° 17' 45.2"	SUNNY *° S 8	13:49	0.165	17.2	101.0	954	200.00	2,814	Warden - 21375 Gunther Grove
07/02/18	07/02/2018 3D	N 29° 38' 50.4" W 098° 17' 45.2"	SUNNY *° S 8	13:49	0.118	14.3	102.0	954	200.00	2,623	Warden Property Line
07/03/18	07/03/2018 Base Pit S. Wall D	N 29° 38' 15.0" W 098° 16' 53.7"	SUNNY 95° S 6	11:09	0.040	4.5	106.0	619	661.00	5,364	City Property Line
07/03/18	07/03/2018 Base Pit S. Wall D	N 29° 38' 15.0" W 098° 16' 53.7"	SUNNY 95° S 6	11:09	0.078	15.2	113.0	619	661.00	2,877	Holly - 9916 Trophy Oaks
07/03/18	07/03/2018 Base Pit S. Wall D	N 29° 38' 15.0" W 098° 16' 53.7"	SUNNY 95° S 6	11:09	0.053	4.5	111.0	619	661.00	4,341	Johnson Residence
07/03/18	07/03/2018 Base Pit S. Wall D	N 29° 38' 15.0" W 098° 16' 53.7"	SUNNY 95° S 6	11:09	NT	NT	NT	619	661.00	8,442	Michels - 9118 Tuscan Hills
07/03/18	07/03/2018 Base Pit S. Wall D	N 29° 38' 15.0" W 098° 16' 53.7"	SUNNY 95° S 6	11:09	0.105	22.7	111.0	619	661.00	4,158	Warden - 21375 Gunther Grove
07/06/18	07/06/2018 Base Pit S. Wall C	N 29° 38' 14.0" W 098° 16' 55.0"	MOSTLY CLOUDY 92° NE 7	11:22	0.023	4.1	110.0	770	689.00	5,267	City Property Line
07/06/18	07/06/2018 Base Pit S. Wall C	N 29° 38' 14.0" W 098° 16' 55.0"	MOSTLY CLOUDY 92° NE 7	11:22	0.040	5.1	113.0	770	689.00	4,247	Johnson Residence
07/06/18	07/06/2018 Base Pit S. Wall C	N 29° 38' 14.0" W 098° 16' 55.0"	MOSTLY CLOUDY 92° NE 7	11:22	NT	NT	NT	770	689.00	8,386	Michels - 9118 Tuscan Hills
07/06/18	07/06/2018 Base Pit S. Wall C	N 29° 38' 14.0" W 098° 16' 55.0"	MOSTLY CLOUDY 92° NE 7	11:22	0.065	21.7	111.0	770	689.00	4,067	Warden - 21375 Gunther Grove
07/06/18	07/06/2018 Base Pit S. Wall C	N 29° 38' 14.0" W 098° 16' 55.0"	MOSTLY CLOUDY 92° NE 7	11:22	0.093	22.7	116.0	770	689.00	2,764	Holly - 9916 Trophy Oaks

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

* = Information not provided

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JULY 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
07/09/18	07/09/2018 Lower 6 W. Wall B	N 29° 38' 50.0" W 098° 17' 13.2"	RAINY 90° NE 6	11:31	0.033	5.7	105.0	721	570.00	4,537	City Property Line
07/09/18	07/09/2018 Lower 6 W. Wall B	N 29° 38' 50.0" W 098° 17' 13.2"	RAINY 90° NE 6	11:31	0.065	6.8	110.0	721	570.00	3,777	Johnson Residence
07/09/18	07/09/2018 Lower 6 W. Wall B	N 29° 38' 50.0" W 098° 17' 13.2"	RAINY 90° NE 6	11:31	0.053	8.1	94.0	721	570.00	5,835	Michels - 9118 Tuscan Hills
07/09/18	07/09/2018 Lower 6 W. Wall B	N 29° 38' 50.0" W 098° 17' 13.2"	RAINY 90° NE 6	11:31	0.173	9.6	110.0	721	570.00	3,614	Warden - 21375 Gunther Grove
07/09/18	07/09/2018 Lower 6 W. Wall B	N 29° 38' 50.0" W 098° 17' 13.2"	RAINY 90° NE 6	11:31	0.073	17.2	110.0	721	570.00	3,390	Warden Property Line
07/11/18	07/11/2018 3B	N 29° 38' 47.9" W 098° 17' 45.1"	* 90° S 6	12:15	0.043	10.9	108.0	1098	229.00	2,677	City Property Line
07/11/18	07/11/2018 3B	N 29° 38' 47.9" W 098° 17' 45.1"	* 90° S 6	12:15	0.090	17.2	111.0	1098	229.00	2,581	Johnson Residence
07/11/18	07/11/2018 3B	N 29° 38' 47.9" W 098° 17' 45.1"	* 90° S 6	12:15	0.053	11.9	100.0	1098	229.00	3,054	Michels - 9118 Tuscan Hills
07/11/18	07/11/2018 3B	N 29° 38' 47.9" W 098° 17' 45.1"	* 90° S 6	12:15	0.175	9.3	108.0	1098	229.00	2,563	Warden - 21375 Gunther Grove
07/11/18	07/11/2018 3B	N 29° 38' 47.9" W 098° 17' 45.1"	* 90° S 6	12:15	0.068	12.2	109.0	1098	229.00	2,374	Warden Property Line
07/12/18	07/12/2018 Upper S. Wall C	N 29° 38' 9.0" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 6	16:44	NT	NT	NT	1008	47.35	6,505	City Property Line
07/12/18	07/12/2018 Upper S. Wall C	N 29° 38' 9.0" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 6	16:44	NT	NT	NT	1008	47.35	3,973	Holly - 9916 Trophy Oaks
07/12/18	07/12/2018 Upper S. Wall C	N 29° 38' 9.0" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 6	16:44	NT	NT	NT	1008	47.35	5,495	Johnson Residence
07/12/18	07/12/2018 Upper S. Wall C	N 29° 38' 9.0" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 6	16:44	NT	NT	NT	1008	47.35	9,651	Michels - 9118 Tuscan Hills
07/12/18	07/12/2018 Upper S. Wall C	N 29° 38' 9.0" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 6	16:44	NT	NT	NT	1008	47.35	5,319	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

* = Information not provided

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
JULY 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
07/13/18	07/13/2018 3C	N 29° 38' 50.7" W 098° 17' 45.6"	PARTLY CLOUDY 95° S 8	13:26	0.048	10.4	105.0	990	196.00	2,938	City Property Line
07/13/18	07/13/2018 3C	N 29° 38' 50.7" W 098° 17' 45.6"	PARTLY CLOUDY 95° S 8	13:26	0.078	8.3	100.0	990	196.00	2,981	Michels - 9118 Tuscan Hills
07/13/18	07/13/2018 3C	N 29° 38' 50.7" W 098° 17' 45.6"	PARTLY CLOUDY 95° S 8	13:26	NT	NT	NT	990	196.00	5,173	Stewart Residence
07/13/18	07/13/2018 3C	N 29° 38' 50.7" W 098° 17' 45.6"	PARTLY CLOUDY 95° S 8	13:26	0.148	10.0	104.0	990	196.00	2,850	Warden - 21375 Gunther Grove
07/13/18	07/13/2018 3C	N 29° 38' 50.7" W 098° 17' 45.6"	PARTLY CLOUDY 95° S 8	13:26	0.065	9.1	105.0	990	196.00	2,660	Warden Property Line
07/16/18	07/16/2018 Base Pit S. Wall A	N 29° 38' 14.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	15:55	0.023	3.8	108.0	771	822.00	5,093	City Property Line
07/16/18	07/16/2018 Base Pit S. Wall A	N 29° 38' 14.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	15:55	0.098	17.2	115.0	771	822.00	2,588	Holly - 9916 Trophy Oaks
07/16/18	07/16/2018 Base Pit S. Wall A	N 29° 38' 14.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	15:55	0.020	6.6	101.0	771	822.00	8,230	Michels - 9118 Tuscan Hills
07/16/18	07/16/2018 Base Pit S. Wall A	N 29° 38' 14.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	15:55	0.083	33.3	114.0	771	822.00	2,333	Stewart Residence
07/16/18	07/16/2018 Base Pit S. Wall A	N 29° 38' 14.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	15:55	0.070	27.8	113.0	771	822.00	3,896	Warden - 21375 Gunther Grove
07/17/18	07/18/2018 Lower S. Wall G	N 29° 38' 7.2" W 098° 16' 51.9"	PARTLY CLOUDY 100° S 6	12:39	NT	NT	NT	796	294.00	5,686	City Property Line
07/17/18	07/18/2018 Lower S. Wall G	N 29° 38' 7.2" W 098° 16' 51.9"	PARTLY CLOUDY 100° S 6	12:39	0.033	8.9	113.0	796	294.00	3,138	Holly - 9916 Trophy Oaks
07/17/18	07/18/2018 Lower S. Wall G	N 29° 38' 7.2" W 098° 16' 51.9"	PARTLY CLOUDY 100° S 6	12:39	NT	NT	NT	796	294.00	8,960	Michels - 9118 Tuscan Hills
07/17/18	07/18/2018 Lower S. Wall G	N 29° 38' 7.2" W 098° 16' 51.9"	PARTLY CLOUDY 100° S 6	12:39	0.028	6.7	117.0	796	294.00	2,460	Stewart Residence
07/17/18	07/18/2018 Lower S. Wall G	N 29° 38' 7.2" W 098° 16' 51.9"	PARTLY CLOUDY 100° S 6	12:39	0.033	9.6	111.0	796	294.00	4,529	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.
NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEXT QUARRY
GARDEN RIDGE, TEXAS
JULY 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
07/19/18	07/19/2018 3D	N 29° 38' 53.8" W 098° 17' 46.2"	PARTLY CLOUDY 100° S 6	14:06	0.030	6.4	102.0	1172	192.00	3,232	City Property Line
07/19/18	07/19/2018 3D	N 29° 38' 53.8" W 098° 17' 46.2"	PARTLY CLOUDY 100° S 6	14:06	0.083	10.9	98.0	1172	192.00	2,928	Michels - 9118 Tuscan Hills
07/19/18	07/19/2018 3D	N 29° 38' 53.8" W 098° 17' 46.2"	PARTLY CLOUDY 100° S 6	14:06	NT	NT	NT	1172	192.00	5,479	Stewart Residence
07/19/18	07/19/2018 3D	N 29° 38' 53.8" W 098° 17' 46.2"	PARTLY CLOUDY 100° S 6	14:06	0.108	104.0	104.0	1172	192.00	3,169	Warden - 21375 Gunther Grove
07/19/18	07/19/2018 3D	N 29° 38' 53.8" W 098° 17' 46.2"	PARTLY CLOUDY 100° S 6	14:06	0.090	9.3	106.0	1172	192.00	2,979	Warden Property Line
07/20/18	07/20/2018 Lower S. Wall H	N 29° 38' 5.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	12:21	NT	NT	NT	699	286.00	5,326	City Property Line
07/20/18	07/20/2018 Lower S. Wall H	N 29° 38' 5.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	12:21	0.030	10.0	112.0	699	286.00	2,780	Holly - 9916 Trophy Oaks
07/20/18	07/20/2018 Lower S. Wall H	N 29° 38' 5.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	12:21	NT	NT	NT	699	286.00	8,697	Michels - 9118 Tuscan Hills
07/20/18	07/20/2018 Lower S. Wall H	N 29° 38' 5.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	12:21	0.043	7.8	118.0	699	286.00	1,999	Stewart Residence
07/20/18	07/20/2018 Lower S. Wall H	N 29° 38' 5.0" W 098° 16' 57.0"	PARTLY CLOUDY 100° S 8	12:21	0.043	19.2	109.0	699	286.00	4,204	Warden - 21375 Gunther Grove
07/23/18	07/23/2018 Base Pit S. Wall D	N 29° 38' 17.3" W 098° 16' 49.9"	SUNNY 104° S 8	12:49	0.023	4.3	103.0	771	661.00	5,669	City Property Line
07/23/18	07/23/2018 Base Pit S. Wall D	N 29° 38' 17.3" W 098° 16' 49.9"	SUNNY 104° S 8	12:49	0.045	9.8	111.0	771	661.00	3,219	Holly - 9916 Trophy Oaks
07/23/18	07/23/2018 Base Pit S. Wall D	N 29° 38' 17.3" W 098° 16' 49.9"	SUNNY 104° S 8	12:49	NT	NT	NT	771	661.00	8,644	Michels - 9118 Tuscan Hills
07/23/18	07/23/2018 Base Pit S. Wall D	N 29° 38' 17.3" W 098° 16' 49.9"	SUNNY 104° S 8	12:49	0.035	4.9	109.0	771	661.00	2,911	Stewart Residence
07/23/18	07/23/2018 Base Pit S. Wall D	N 29° 38' 17.3" W 098° 16' 49.9"	SUNNY 104° S 8	12:49	0.048	16.7	110.0	771	661.00	4,450	Warden - 21375 Gunther Grove

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NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEXT QUARRY
GARDEN RIDGE, TEXAS
JULY 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
07/24/18	07/24/2018 Upper 3E	N 29° 38' 56.6" W 098° 17' 45.1"	PARTLY CLOUDY 100° S 8	14:19	NT	NT	NT	978	47.71	3,530	City Property Line
07/24/18	07/24/2018 Upper 3E	N 29° 38' 56.6" W 098° 17' 45.1"	PARTLY CLOUDY 100° S 8	14:19	0.058	8.9	101.0	978	47.71	3,052	Michels - 9118 Tuscan Hills
07/24/18	07/24/2018 Upper 3E	N 29° 38' 56.6" W 098° 17' 45.1"	PARTLY CLOUDY 100° S 8	14:19	NT	NT	NT	978	47.71	5,699	Stewart Residence
07/24/18	07/24/2018 Upper 3E	N 29° 38' 56.6" W 098° 17' 45.1"	PARTLY CLOUDY 100° S 8	14:19	0.070	8.9	100.0	978	47.71	3,434	Warden - 21375 Gunther Grove
07/24/18	07/24/2018 Upper 3E	N 29° 38' 56.6" W 098° 17' 45.1"	PARTLY CLOUDY 100° S 8	14:19	0.038	8.5	100.0	978	47.71	3,238	Warden Property Line
07/25/18	07/25/2018 3B	N 29° 38' 48.1" W 098° 17' 45.8"	PARTLY CLOUDY 100° NE 4	17:00	0.058	7.4	105.0	1170	190.00	2,679	City Property Line
07/25/18	07/25/2018 3B	N 29° 38' 48.1" W 098° 17' 45.8"	PARTLY CLOUDY 100° NE 4	17:00	0.070	11.4	97.0	1170	190.00	2,990	Michels - 9118 Tuscan Hills
07/25/18	07/25/2018 3B	N 29° 38' 48.1" W 098° 17' 45.8"	PARTLY CLOUDY 100° NE 4	17:00	NT	NT	NT	1170	190.00	4,946	Stewart Residence
07/25/18	07/25/2018 3B	N 29° 38' 48.1" W 098° 17' 45.8"	PARTLY CLOUDY 100° NE 4	17:00	0.170	13.9	107.0	1170	190.00	2,594	Warden - 21375 Gunther Grove
07/25/18	07/25/2018 3B	N 29° 38' 48.1" W 098° 17' 45.8"	PARTLY CLOUDY 100° NE 4	17:00	0.080	14.7	107.0	1170	190.00	2,409	Warden Property Line
07/26/18	07/26/2018 Upper S. Wall D	N 29° 38' 7.0" W 098° 16' 45.0"	PARTLY CLOUDY 100° S 4	14:18	NT	NT	NT	1414	49.93	6,278	City Property Line
07/26/18	07/26/2018 Upper S. Wall D	N 29° 38' 7.0" W 098° 16' 45.0"	PARTLY CLOUDY 100° S 4	14:18	NT	NT	NT	1414	49.93	3,733	Holly - 9916 Trophy Oaks
07/26/18	07/26/2018 Upper S. Wall D	N 29° 38' 7.0" W 098° 16' 45.0"	PARTLY CLOUDY 100° S 4	14:18	NT	NT	NT	1414	49.93	9,497	Michels - 9118 Tuscan Hills
07/26/18	07/26/2018 Upper S. Wall D	N 29° 38' 7.0" W 098° 16' 45.0"	PARTLY CLOUDY 100° S 4	14:18	NT	NT	NT	1414	49.93	3,064	Stewart Residence
07/26/18	07/26/2018 Upper S. Wall D	N 29° 38' 7.0" W 098° 16' 45.0"	PARTLY CLOUDY 100° S 4	14:18	NT	NT	NT	1414	49.93	5,108	Warden - 21375 Gunther Grove

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GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEXT QUARRY
GARDEN RIDGE, TEXAS
JULY 2018

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
07/27/18	07/27/2018 South Wall I	N 29° 38' 3.5" W 098° 16' 59.4"	SUNNY 102° S 10	13:30	NT	NT	NT	749	239.00	5,183	City Property Line
07/27/18	07/27/2018 South Wall I	N 29° 38' 3.5" W 098° 16' 59.4"	SUNNY 102° S 10	13:30	0.058	9.6	114.0	749	239.00	2,648	Holly - 9916 Trophy Oaks
07/27/18	07/27/2018 South Wall I	N 29° 38' 3.5" W 098° 16' 59.4"	SUNNY 102° S 10	13:30	NT	NT	NT	749	239.00	8,608	Michels - 9118 Tuscan Hills
07/27/18	07/27/2018 South Wall I	N 29° 38' 3.5" W 098° 16' 59.4"	SUNNY 102° S 10	13:30	0.078	5.8	118.0	749	239.00	1,794	Stewart Residence
07/27/18	07/27/2018 South Wall I	N 29° 38' 3.5" W 098° 16' 59.4"	SUNNY 102° S 10	13:30	0.055	13.2	112.0	749	239.00	4,086	Warden - 21375 Gunther Grove
07/30/18	07/30/2018 Lower Bench 1 East Wall	N 29° 38' 37.2" W 098° 17' 33.1"	PARTLY CLOUDY 100° S 6	14:13	0.020	5.6	97.0	972	79.67	2,350	City Property Line
07/30/18	07/30/2018 Lower Bench 1 East Wall	N 29° 38' 37.2" W 098° 17' 33.1"	PARTLY CLOUDY 100° S 6	14:13	NT	NT	NT	972	79.67	4,312	Michels - 9118 Tuscan Hills
07/30/18	07/30/2018 Lower Bench 1 East Wall	N 29° 38' 37.2" W 098° 17' 33.1"	PARTLY CLOUDY 100° S 6	14:13	NT	NT	NT	972	79.67	3,522	Stewart Residence
07/30/18	07/30/2018 Lower Bench 1 East Wall	N 29° 38' 37.2" W 098° 17' 33.1"	PARTLY CLOUDY 100° S 6	14:13	0.170	9.6	103.0	972	79.67	1,577	Warden - 21375 Gunther Grove
07/30/18	07/30/2018 Lower Bench 1 East Wall	N 29° 38' 37.2" W 098° 17' 33.1"	PARTLY CLOUDY 100° S 6	14:13	0.090	8.8	102.0	972	79.67	1,344	Warden Property Line
07/31/18	07/31/2018 Base Pit S. Wall D	N 29° 38' 14.4" W 098° 16' 53.5"	MOSTLY CLOUDY 95° NE 12	14:01	0.028	3.9	108.0	706	660.00	5,391	City Property Line
07/31/18	07/31/2018 Base Pit S. Wall D	N 29° 38' 14.4" W 098° 16' 53.5"	MOSTLY CLOUDY 95° NE 12	14:01	0.065	10.0	116.0	706	660.00	2,895	Holly - 9916 Trophy Oaks
07/31/18	07/31/2018 Base Pit S. Wall D	N 29° 38' 14.4" W 098° 16' 53.5"	MOSTLY CLOUDY 95° NE 12	14:01	NT	NT	NT	706	660.00	8,485	Michels - 9118 Tuscan Hills
07/31/18	07/31/2018 Base Pit S. Wall D	N 29° 38' 14.4" W 098° 16' 53.5"	MOSTLY CLOUDY 95° NE 12	14:01	0.065	7.8	116.0	706	660.00	2,501	Stewart Residence
07/31/18	07/31/2018 Base Pit S. Wall D	N 29° 38' 14.4" W 098° 16' 53.5"	MOSTLY CLOUDY 95° NE 12	14:01	0.110	20.8	113.0	706	660.00	4,187	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.
NT = No Trigger, <122dB



September 4, 2018

VibraTechinc.com

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

4818 E. Ben White Blvd.
Suite 202
Austin, TX 78741

Phone 512.442.6464
Fax 512.442.6552

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of August 2018 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2018 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel used seismographs each day of blasting at various locations.

The attached report contains the original seismograph records obtained from the blasting along with a comparison of the recorded vibrations to the latest recommended U.S. Bureau of Mines (USBM) Variable Particle Velocity vs. Frequency Limits Report of Investigations (RI)-8507 (Nov. 1980).

The recorded ground vibrations **satisfy** the Variable Particle Velocity vs. Frequency Limits recommended by the USBM RI-8507 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

The recorded air-borne effects **satisfy** the recommended levels set forth in the USBM RI-8485 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

If there are any additional questions, please contact the Quarry Commission, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.



Respectfully submitted,

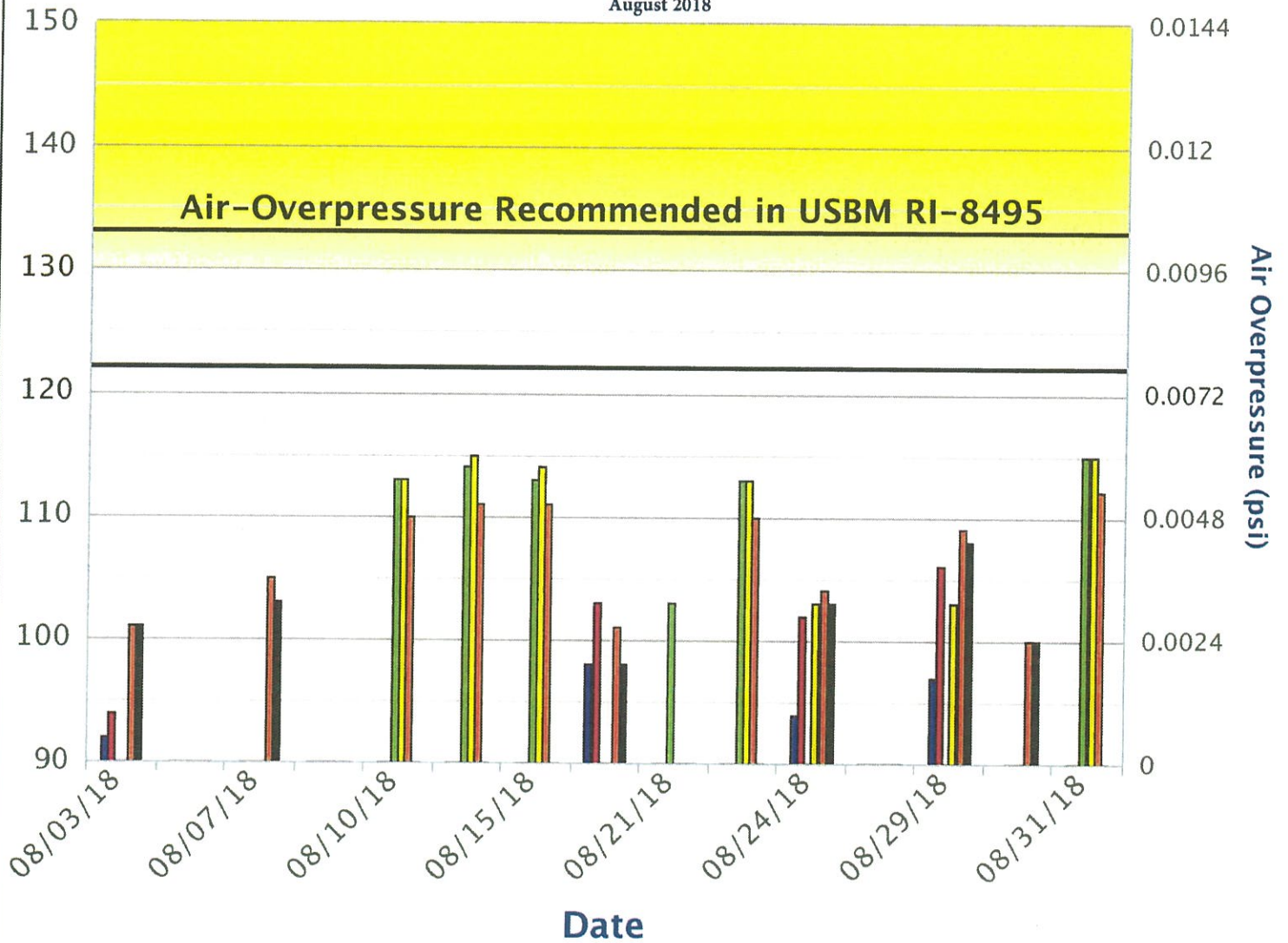
VIBRA-TECH, INC.

Geoffrey Rigsby
Regional Manager

cc: Hal Halamuda, Hanson – Servtex



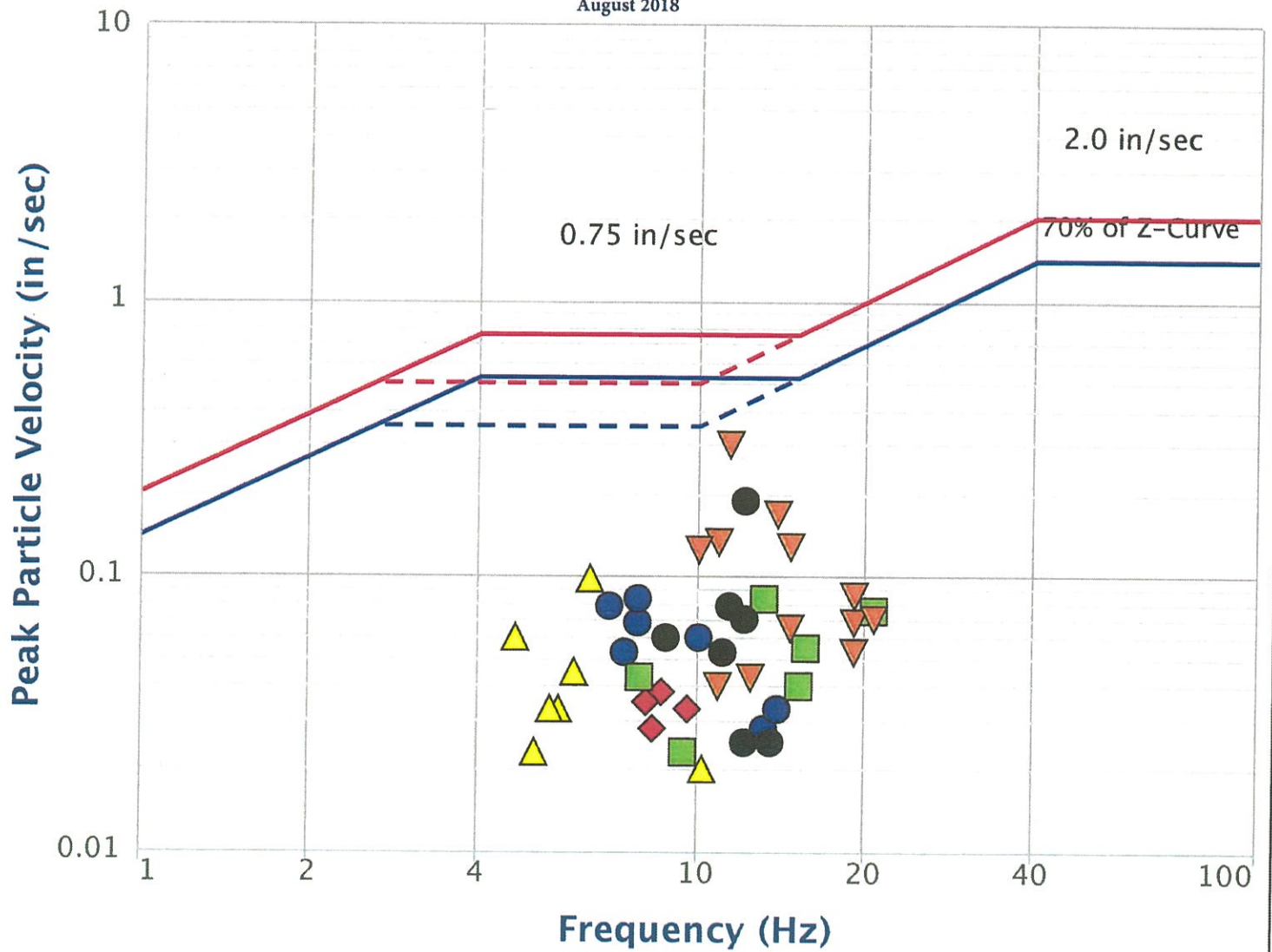
Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
August 2018



Air Overpressure (psi)

- Michels Residence
- City Property Line
- Holly Residence
- Stewart Residence
- Warden Residence
- Warden Property Line

Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
August 2018



- Michels Residence
- ◆ City Property Line
- Holly Residence
- ▲ Stewart Residence
- ▼ Warden Residence
- Warden Property Line

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEXT QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
08/03/18	08/03/2018 3C	N 29° 38' 50.7" W 098° 17' 46.2"	PARTLY CLOUDY 100° SW 8	12:18	0.033	9.6	94.0	954	181.00	2,926	City Property Line
08/03/18	08/03/2018 3C	N 29° 38' 50.7" W 098° 17' 46.2"	PARTLY CLOUDY 100° SW 8	12:18	0.060	10.0	92.0	954	181.00	2,928	Michels - 9118 Tuscan Hills
08/03/18	08/03/2018 3C	N 29° 38' 50.7" W 098° 17' 46.2"	PARTLY CLOUDY 100° SW 8	12:18	NT	NT	NT	954	181.00	5,197	Stewart Residence
08/03/18	08/03/2018 3C	N 29° 38' 50.7" W 098° 17' 46.2"	PARTLY CLOUDY 100° SW 8	12:18	0.168	13.9	101.0	954	181.00	2,860	Warden - 21375 Gunther Grove
08/03/18	08/03/2018 3C	N 29° 38' 50.7" W 098° 17' 46.2"	PARTLY CLOUDY 100° SW 8	12:18	0.078	11.4	101.0	954	181.00	2,673	Warden Property Line
08/06/18	08/06/2018 Upper S. Wall E	N 29° 38' 8.0" W 098° 16' 47.0"	* 99° S 6	13:12	NT	NT	NT	1388	46.70	6,082	City Property Line
08/06/18	08/06/2018 Upper S. Wall E	N 29° 38' 8.0" W 098° 16' 47.0"	* 99° S 6	13:12	NT	NT	NT	1388	46.70	3,540	Holly - 9916 Trophy Oaks
08/06/18	08/06/2018 Upper S. Wall E	N 29° 38' 8.0" W 098° 16' 47.0"	* 99° S 6	13:12	NT	NT	NT	1388	46.70	9,294	Michels - 9118 Tuscan Hills
08/06/18	08/06/2018 Upper S. Wall E	N 29° 38' 8.0" W 098° 16' 47.0"	* 99° S 6	13:12	NT	NT	NT	1388	46.70	2,898	Stewart Residence
08/06/18	08/06/2018 Upper S. Wall E	N 29° 38' 8.0" W 098° 16' 47.0"	* 99° S 6	13:12	NT	NT	NT	1388	46.70	4,909	Warden - 21375 Gunther Grove
08/07/18	08/07/2018 Upper 1B	N 29° 38' 36.6" W 098° 17' 35.9"	PARTLY CLOUDY 100° SW 8	15:38	0.055	6.3	89.0	1284	55.00	2,130	City Property Line
08/07/18	08/07/2018 Upper 1B	N 29° 38' 36.6" W 098° 17' 35.9"	PARTLY CLOUDY 100° SW 8	15:38	0.068	7.8	87.0	1284	55.00	4,148	Michels - 9118 Tuscan Hills
08/07/18	08/07/2018 Upper 1B	N 29° 38' 36.6" W 098° 17' 35.9"	PARTLY CLOUDY 100° SW 8	15:38	NT	NT	NT	1284	55.00	3,517	Stewart Residence
08/07/18	08/07/2018 Upper 1B	N 29° 38' 36.6" W 098° 17' 35.9"	PARTLY CLOUDY 100° SW 8	15:38	0.300	11.4	105.0	1284	55.00	1,425	Warden - 21375 Gunther Grove
08/07/18	08/07/2018 Upper 1B	N 29° 38' 36.6" W 098° 17' 35.9"	PARTLY CLOUDY 100° SW 8	15:38	0.188	12.2	103.0	1284	55.00	1,195	Warden Property Line

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

* = Information not provided

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
08/08/18	08/08/2018 Upper 3F	N 29° 38' 55.7" W 098° 17' 42.8"	PARTLY CLOUDY 96° SW 10	13:50	NT	NT	NT	1086	47.00	3,493	City Property Line
08/08/18	08/08/2018 Upper 3F	N 29° 38' 55.7" W 098° 17' 42.8"	PARTLY CLOUDY 96° SW 10	13:50	0.028	13.2	87.0	1086	47.00	3,242	Michels - 9118 Tuscan Hills
08/08/18	08/08/2018 Upper 3F	N 29° 38' 55.7" W 098° 17' 42.8"	PARTLY CLOUDY 96° SW 10	13:50	NT	NT	NT	1086	47.00	5,537	Stewart Residence
08/08/18	08/08/2018 Upper 3F	N 29° 38' 55.7" W 098° 17' 42.8"	PARTLY CLOUDY 96° SW 10	13:50	0.043	12.5	89.0	1086	47.00	3,323	Warden - 21375 Gunther Grove
08/08/18	08/08/2018 Upper 3F	N 29° 38' 55.7" W 098° 17' 42.8"	PARTLY CLOUDY 96° SW 10	13:50	0.025	12.2	89.0	1086	47.00	3,120	Warden Property Line
08/10/18	08/10/2018 Lower S. Wall B	N 29° 38' 9.2" W 098° 16' 41.6"	PARTLY CLOUDY 90° SW 8	13:59	NT	NT	NT	830	644.00	6,518	City Property Line
08/10/18	08/10/2018 Lower S. Wall B	N 29° 38' 9.2" W 098° 16' 41.6"	PARTLY CLOUDY 90° SW 8	13:59	0.043	7.9	113.0	830	644.00	3,987	Holly - 9916 Trophy Oaks
08/10/18	08/10/2018 Lower S. Wall B	N 29° 38' 9.2" W 098° 16' 41.6"	PARTLY CLOUDY 90° SW 8	13:59	NT	NT	NT	830	644.00	9,658	Michels - 9118 Tuscan Hills
08/10/18	08/10/2018 Lower S. Wall B	N 29° 38' 9.2" W 098° 16' 41.6"	PARTLY CLOUDY 90° SW 8	13:59	0.033	5.6	113.0	830	644.00	3,384	Stewart Residence
08/10/18	08/10/2018 Lower S. Wall B	N 29° 38' 9.2" W 098° 16' 41.6"	PARTLY CLOUDY 90° SW 8	13:59	0.065	14.7	110.0	830	644.00	5,331	Warden - 21375 Gunther Grove
08/13/18	08/13/2018 Base Pit S. Wall C	N 29° 38' 13.0" W 098° 16' 55.0"	PARTLY CLOUDY 80° SE 10	11:54	NT	NT	NT	687	561.00	5,285	City Property Line
08/13/18	08/13/2018 Base Pit S. Wall C	N 29° 38' 13.0" W 098° 16' 55.0"	PARTLY CLOUDY 80° SE 10	11:54	0.055	15.6	114.0	687	561.00	2,770	Holly - 9916 Trophy Oaks
08/13/18	08/13/2018 Base Pit S. Wall C	N 29° 38' 13.0" W 098° 16' 55.0"	PARTLY CLOUDY 80° SE 10	11:54	NT	NT	NT	687	561.00	8,433	Michels - 9118 Tuscan Hills
08/13/18	08/13/2018 Base Pit S. Wall C	N 29° 38' 13.0" W 098° 16' 55.0"	PARTLY CLOUDY 80° SE 10	11:54	0.045	6.0	115.0	687	561.00	2,326	Stewart Residence
08/13/18	08/13/2018 Base Pit S. Wall C	N 29° 38' 13.0" W 098° 16' 55.0"	PARTLY CLOUDY 80° SE 10	11:54	0.068	19.2	111.0	687	561.00	4,091	Warden - 21375 Gunther Grove

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**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEXT QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
08/15/18	08/15/2018 Lower S. Wall C	N 29° 38' 8.9" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 8	12:24	NT	NT	NT	703	692.00	6,507	City Property Line
08/15/18	08/15/2018 Lower S. Wall C	N 29° 38' 8.9" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 8	12:24	0.040	15.2	113.0	703	692.00	3,974	Holly - 9916 Trophy Oaks
08/15/18	08/15/2018 Lower S. Wall C	N 29° 38' 8.9" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 8	12:24	NT	NT	NT	703	692.00	9,656	Michels - 9118 Tuscan Hills
08/15/18	08/15/2018 Lower S. Wall C	N 29° 38' 8.9" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 8	12:24	0.033	5.4	114.0	703	692.00	3,363	Stewart Residence
08/15/18	08/15/2018 Lower S. Wall C	N 29° 38' 8.9" W 098° 16' 41.8"	PARTLY CLOUDY 95° S 8	12:24	0.053	19.2	111.0	703	692.00	5,322	Warden - 21375 Gunther Grove
08/16/18	08/16/2018 3D	N 29° 38' 53.6" W 098° 17' 46.6"	PARTLY CLOUDY 98° S 9	14:52	0.028	8.3	103.0	1436	129.00	3,205	City Property Line
08/16/18	08/16/2018 3D	N 29° 38' 53.6" W 098° 17' 46.6"	PARTLY CLOUDY 98° S 9	14:52	0.083	7.8	98.0	1436	129.00	2,892	Michels - 9118 Tuscan Hills
08/16/18	08/16/2018 3D	N 29° 38' 53.6" W 098° 17' 46.6"	PARTLY CLOUDY 98° S 9	14:52	NT	NT	NT	1436	129.00	5,476	Stewart Residence
08/16/18	08/16/2018 3D	N 29° 38' 53.6" W 098° 17' 46.6"	PARTLY CLOUDY 98° S 9	14:52	0.133	10.9	101.0	1436	129.00	3,155	Warden - 21375 Gunther Grove
08/16/18	08/16/2018 3D	N 29° 38' 53.6" W 098° 17' 46.6"	PARTLY CLOUDY 98° S 9	14:52	0.060	8.8	98.0	1436	129.00	2,967	Warden Property Line
08/21/18	08/21/2018 Upper S. Wall F	N 29° 38' 5.3" W 098° 16' 51.5"	SUNNY 101° S 8	13:38	NT	NT	NT	1800	54.00	5,776	City Property Line
08/21/18	08/21/2018 Upper S. Wall F	N 29° 38' 5.3" W 098° 16' 51.5"	SUNNY 101° S 8	13:38	0.023	9.4	103.0	1800	54.00	3,226	Holly - 9916 Trophy Oaks
08/21/18	08/21/2018 Upper S. Wall F	N 29° 38' 5.3" W 098° 16' 51.5"	SUNNY 101° S 8	13:38	NT	NT	NT	1800	54.00	9,090	Michels - 9118 Tuscan Hills
08/21/18	08/21/2018 Upper S. Wall F	N 29° 38' 5.3" W 098° 16' 51.5"	SUNNY 101° S 8	13:38	NT	NT	NT	1800	54.00	2,484	Stewart Residence
08/21/18	08/21/2018 Upper S. Wall F	N 29° 38' 5.3" W 098° 16' 51.5"	SUNNY 101° S 8	13:38	NT	NT	NT	1800	54.00	4,633	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.
NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
08/22/18	08/22/2018 Base Pit S. Wall B	N 29° 38' 12.7" W 098° 16' 58.7"	SUNNY 100° S 8	14:26	NT	NT	NT	628	772.00	4,917	City Property Line
08/22/18	08/22/2018 Base Pit S. Wall B	N 29° 38' 12.7" W 098° 16' 58.7"	SUNNY 100° S 8	14:26	0.075	20.8	113.0	628	772.00	2,448	Holly - 9916 Trophy Oaks
08/22/18	08/22/2018 Base Pit S. Wall B	N 29° 38' 12.7" W 098° 16' 58.7"	SUNNY 100° S 8	14:26	NT	NT	NT	628	772.00	8,162	Michels - 9118 Tuscan Hills
08/22/18	08/22/2018 Base Pit S. Wall B	N 29° 38' 12.7" W 098° 16' 58.7"	SUNNY 100° S 8	14:26	0.060	4.7	113.0	628	772.00	2,012	Stewart Residence
08/22/18	08/22/2018 Base Pit S. Wall B	N 29° 38' 12.7" W 098° 16' 58.7"	SUNNY 100° S 8	14:26	0.070	20.8	110.0	628	772.00	3,784	Warden - 21375 Gunther Grove
08/24/18	08/24/2018 Bench 3A+B	N 29° 38' 43.3" W 098° 17' 45.7"	SUNNY 100° S 8	13:59	0.038	8.6	102.0	1384	37.00	2,218	City Property Line
08/24/18	08/24/2018 Bench 3A+B	N 29° 38' 43.3" W 098° 17' 45.7"	SUNNY 100° S 8	13:59	0.053	7.4	94.0	1384	37.00	3,105	Michels - 9118 Tuscan Hills
08/24/18	08/24/2018 Bench 3A+B	N 29° 38' 43.3" W 098° 17' 45.7"	SUNNY 100° S 8	13:59	0.023	5.1	103.0	1384	37.00	4,517	Stewart Residence
08/24/18	08/24/2018 Bench 3A+B	N 29° 38' 43.3" W 098° 17' 45.7"	SUNNY 100° S 8	13:59	0.125	10.0	104.0	1384	37.00	2,118	Warden - 21375 Gunther Grove
08/24/18	08/24/2018 Bench 3A+B	N 29° 38' 43.3" W 098° 17' 45.7"	SUNNY 100° S 8	13:59	0.053	11.1	103.0	1384	37.00	1,939	Warden Property Line
08/28/18	08/28/2018 Upper S. Wall G	N 29° 38' 5.3" W 098° 16' 51.7"	PARTLY CLOUDY 95° S 10	14:13	NT	NT	NT	1470	47.50	5,759	City Property Line
08/28/18	08/28/2018 Upper S. Wall G	N 29° 38' 5.3" W 098° 16' 51.7"	PARTLY CLOUDY 95° S 10	14:13	NT	NT	NT	1470	47.50	3,209	Holly - 9916 Trophy Oaks
08/28/18	08/28/2018 Upper S. Wall G	N 29° 38' 5.3" W 098° 16' 51.7"	PARTLY CLOUDY 95° S 10	14:13	NT	NT	NT	1470	47.50	9,075	Michels - 9118 Tuscan Hills
08/28/18	08/28/2018 Upper S. Wall G	N 29° 38' 5.3" W 098° 16' 51.7"	PARTLY CLOUDY 95° S 10	14:13	NT	NT	NT	1470	47.50	2,467	Stewart Residence
08/28/18	08/28/2018 Upper S. Wall G	N 29° 38' 5.3" W 098° 16' 51.7"	PARTLY CLOUDY 95° S 10	14:13	NT	NT	NT	1470	47.50	4,617	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.
NT = No Trigger, <122dB

**GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEXT QUARRY
GARDEN RIDGE, TEXAS
AUGUST 2018**

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
08/29/18	08/29/2018 3C	N 29° 38' 57.0" W 098° 17' 46.5"	* 93° S 6	12:53	0.035	8.1	106.0	772	190.00	3,545	City Property Line
08/29/18	08/29/2018 3C	N 29° 38' 57.0" W 098° 17' 46.5"	* 93° S 6	12:53	0.078	6.9	97.0	772	190.00	2,936	Michels - 9118 Tuscan Hills
08/29/18	08/29/2018 3C	N 29° 38' 57.0" W 098° 17' 46.5"	* 93° S 6	12:53	0.020	10.2	103.0	772	190.00	5,785	Stewart Residence
08/29/18	08/29/2018 3C	N 29° 38' 57.0" W 098° 17' 46.5"	* 93° S 6	12:53	0.128	14.7	109.0	772	190.00	3,493	Warden - 21375 Gunther Grove
08/29/18	08/29/2018 3C	N 29° 38' 57.0" W 098° 17' 46.5"	* 93° S 6	12:53	0.070	12.2	108.0	772	190.00	3,301	Warden Property Line
08/30/18	08/30/2018 West Wall 3G	N 29° 39' 1.8" W 098° 17' 44.8"	SUNNY 93° SW 5	13:29	NT	NT	NT	888	47.30	9,296	City Property Line
08/30/18	08/30/2018 West Wall 3G	N 29° 39' 1.8" W 098° 17' 44.8"	SUNNY 93° SW 5	13:29	0.033	13.9	90.0	888	47.30	3,196	Michels - 9118 Tuscan Hills
08/30/18	08/30/2018 West Wall 3G	N 29° 39' 1.8" W 098° 17' 44.8"	SUNNY 93° SW 5	13:29	NT	NT	NT	888	47.30	6,899	Stewart Residence
08/30/18	08/30/2018 West Wall 3G	N 29° 39' 1.8" W 098° 17' 44.8"	SUNNY 93° SW 5	13:29	0.040	10.9	100.0	888	47.30	3,955	Warden - 21375 Gunther Grove
08/30/18	08/30/2018 West Wall 3G	N 29° 39' 1.8" W 098° 17' 44.8"	SUNNY 93° SW 5	13:29	0.025	13.5	100.0	888	47.30	3,755	Warden Property Line
08/31/18	08/31/2018 Base Pit	N 29° 38' 12.2" W 098° 17' 0.2"	PARTLY CLOUDY 83° SE 7	10:59	NT	NT	NT	640	686.00	4,852	City Property Line
08/31/18	08/31/2018 Base Pit	N 29° 38' 12.2" W 098° 17' 0.2"	PARTLY CLOUDY 83° SE 7	10:59	0.083	13.2	115.0	640	686.00	2,322	Holly - 9916 Trophy Oaks
08/31/18	08/31/2018 Base Pit	N 29° 38' 12.2" W 098° 17' 0.2"	PARTLY CLOUDY 83° SE 7	10:59	NT	NT	NT	640	686.00	8,073	Michels - 9118 Tuscan Hills
08/31/18	08/31/2018 Base Pit	N 29° 38' 12.2" W 098° 17' 0.2"	PARTLY CLOUDY 83° SE 7	10:59	0.098	6.4	115.0	640	686.00	1,871	Stewart Residence
08/31/18	08/31/2018 Base Pit	N 29° 38' 12.2" W 098° 17' 0.2"	PARTLY CLOUDY 83° SE 7	10:59	0.085	19.2	112.0	640	686.00	3,672	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.

NT = No Trigger, <122dB

* = Information not provided

2018-24Q	June	06/14/2018	2:24pm	06/14/2018	Beverly Pickering	202428 Wahl Lane	2105957082	4	1.5	2400	One of the Worst I have felt. Blast very loud and moved couch (it was in it).	06/14/2018
2018-25Q	June	06/18/2018	11:44 am	06/18/2018	Karen McNealy	20950 Klein Circle	210-257-9192	5	2	5000	Extremely strong vibration and loud. I could feel ground and furniture shake, dishes rattled.	06/18/2018
2018-26Q	June	06/25/2018	3:09	06/25/2018	Nancy Ober	9915 Trophy Oaks Dr	319-240-2554	5	1	3000	Very loud, felt like an earthquake	06/25/2018
2018-27Q	June	06/25/2018	3:09	06/25/2018	Steve Ober	9915 Trophy Oaks Dr	319-240-8887	5	1	3000	Worst one in 5 years	06/25/2018
2018-28Q	June	06/25/2018	3:10	06/25/2018	Missy Lantzy	20515 Wahl Lane	2106513531	5	1.5	3000	Worse	06/25/2018
2018-28Q b	June	06/25/2018	3:10	06/25/2018	Karen Diaz	21010 Gunther Grove	2108432946	5	1	3000	Worse I felt in long time....	06/25/2018
2018-29Q	July	07/03/2018	11:09	07/03/2018	Beverly Pickering	20428 Wahl Lane	2105957082	4	1.5	2400	Cooking in the kitchen and family member were in other rooms of the house	07/03/2018
2018-30Q	July	07/06/2018	11:20	07/06/2018	Wayne Davis	20214 Regency Run	832-985-3131	4	2	3500	Strong! Shook the entire house. I have an 8'tall rock retaining wall that is showing signs of cracks in the mortar	07/09/2018
2018-31Q	July	07/16/2018	3:55	07/16/2018	Charles Scott	9860 Trophy Oaks	2106573406	5	2	5500	Much stronger than other recent blasts	07/17/2018
2018-32Q	July	07/31/2018		07/31/2018	Wayne Davis	20214 Regency Run	832-985-3131	4	2	3500	Shook entire house	08/16/2018

No reports for August 2018

City Secretary

From: noreply@civicplus.com
Sent: Thursday, June 14, 2018 2:24 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Beverly
Last Name	Pickering
Report Date	6/14/2018
Phone Number:	2105957082
E-Mail Address	
Address1	20428 Wahl Lane
Blast Date/Time:	1:56
Please describe the event.	One of the worst I have felt. The blast was very loud and moved my couch. I felt it because I was in it.
How did this blast compare to other blasts?	About 2 out of several
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	sitting doing business
In what general direction does you house face? (N,E,S or W)	Field not completed.
What is the approximate square footage of your home?	2400
Is your home a 1 story, 1 1/2 , or 2 story or large?	1 1/2
Would you like a Quarry Commission member to	No

contact you regarding
your report?

We encourage you to attend the next meeting of the Quarry Commission.
Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

By filing this report, you consent to the public release of this information.

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From: noreply@civicplus.com
To: [City Administrator](#); [City Secretary](#); [Adm Liaison](#)
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report
Date: Monday, June 18, 2018 12:07:50 PM

Citizen Quarry Blast Impact Report

First Name	Karen
Last Name	McNealy
Report Date	6/18/2018
Phone Number:	210-257-9192
E-Mail Address	
Address1	20950 Klein Cir.
Blast Date/Time:	11:44
Please describe the event.	Extremely strong vibration and loud. I could feel ground and furniture shake, dishes rattled.
How did this blast compare to other blasts?	The vibration seemed to last longer and I could hear the powerful movement through my house.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	Setting at my dining table
In what general direction does your house face? (N,E,S or W)	W
What is the approximate square footage of your home?	5000
Is your home a 1 story, 1 1/2 , or 2 story or large?	2

Would you like a ☐ Yes
Quarry Commission
member to contact you
regarding your report?

We encourage you to attend the next meeting of the Quarry Commission.
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By filing this report, you consent to the public release of this information.

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2018-25Q

City Secretary

From: noreply@civicplus.com
Sent: Monday, June 25, 2018 3:24 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Nancy
Last Name	Ober
Report Date	6/25/2018
Phone Number:	319-240-2554
E-Mail Address	
Address1	9915 Trophy Oaks Drive
Blast Date/Time:	06/25/18 03:09pm
Please describe the event.	The blast was VERY LARGE - felt like an earthquake.
How did this blast compare to other blasts?	The worst blast we have felt in 4 years(since moving here)
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	sitting down
In what general direction does you house face? (N,E,S or W)	North
What is the approximate square footage of your home?	3000+
Is your home a 1 story, 1 1/2 , or 2 story or large?	1
Would you like a Quarry Commission member to contact you regarding	Yes

your report?

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

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City Secretary

From: noreply@civicplus.com
Sent: Monday, June 25, 2018 3:40 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Steve
Last Name	Ober
Report Date	6/25/2018
Phone Number:	319-240-8887
E-Mail Address	
Address1	9915 Trophy Oaks Dr
Blast Date/Time:	3:09 pm 6/25/18
Please describe the event.	We experienced an unusually large blast which shook our house. We have been here 4 years and this is the biggest blast I can remember
How did this blast compare to other blasts?	louder and more violent
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	sitting in my house
In what general direction does you house face? (N,E,S or W)	NE
What is the approximate square footage of your home?	3000
Is your home a 1 story, 1 1/2 , or 2 story or large?	one

Would you like a Quarry Commission member to contact you regarding your report? Yes

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

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City Secretary

From: noreply@civicplus.com
Sent: Monday, June 25, 2018 3:56 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Missy
Last Name	Lantzh
Report Date	6/25/2018
Phone Number:	2106513531
E-Mail Address	
Address1	20515 Wahl lane
Blast Date/Time:	3:10
Please describe the event.	I'm sure your monitor in my yard picked up the blast!
How did this blast compare to other blasts?	Worse!
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4.5
What was your activity at the time of blast?	In kitchen
In what general direction does you house face? (N,E,S or W)	N
What is the approximate square footage of your home?	3000
Is your home a 1 story, 1 1/2 , or 2 story or large?	1 1/2
Would you like a Quarry Commission member to contact you regarding	No

your report?

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

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City Secretary

From: noreply@civicplus.com
Sent: Monday, June 25, 2018 3:18 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Karen
Last Name	Diaz
Report Date	6/25/2018
Phone Number:	2108432946
E-Mail Address	
Address1	21010 Gunther Grove
Blast Date/Time:	3:10 pm
Please describe the event.	The blast on June 25, 2018 was one of the worst I have felt in a long time. It shook my house so badly that my 9 year old granddaughter came running from a back bedroom asking what had happened! I thought the severity of the blasts was suppose to diminish. Based on this blast I don't think that is the case. Karen Diaz
How did this blast compare to other blasts?	Very severe
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	washing dishes
In what general direction does you house face? (N,E,S or W)	south
What is the approximate square footage of your home?	3000

2018-2826

Is your home a 1 story, 1 1/2 , or 2 story or large? 1 story

Would you like a Quarry Commission member to contact you regarding your report? Yes

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

By filing this report, you consent to the public release of this information.

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From: noreply@civicplus.com
To: [City Administrator](#); [City Secretary](#); [Adm Liaison](#)
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report
Date: Tuesday, July 03, 2018 11:23:48 AM

Citizen Quarry Blast Impact Report

First Name	Beverly
Last Name	Pickering
Report Date	7/3/2018
Phone Number:	2105957082
E-Mail Address	
Address1	20428 Wahl Lane
Blast Date/Time:	July3 2018 11:09
Please describe the event.	We felt the blast by all family members in all of the rooms of the house. We could feel the house move and it startled us. You could feel the house move more than you could even hear the blast.
How did this blast compare to other blasts?	On a scale of 1-5 with 5 being high it felt like a 4.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	We were cooking in the kitchen and some family members were in other rooms of the house
In what general direction does you house face? (N,E,S or W)	Field not completed.
What is the approximate square footage of your home?	2,400
Is your home a 1 story, 1 1/2 , or 2 story or	1 1/2

large?

Would you like a ☐ Yes ☒ No
Quarry Commission
member to contact you
regarding your report?

We encourage you to attend the next meeting of the Quarry Commission.
Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

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2018-29Q

From: noreply@civicplus.com
To: [City Administrator](#); [City Secretary](#); [Adm Liaison](#)
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report
Date: Friday, July 06, 2018 11:32:53 AM

Citizen Quarry Blast Impact Report

First Name	Wayne
Last Name	Davis
Report Date	7/6/2018
Phone Number:	832-985-3131
E-Mail Address	
Address1	20214 Regency Run
Blast Date/Time:	7/6/18 at 11:20a
Please describe the event.	Strong! Shook the entire house. I have an 8'tall rock retaining wall that is showing signs of cracks in the mortar.
How did this blast compare to other blasts?	2x as strong.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	working in home office
In what general direction does you house face? (N,E,S or W)	West
What is the approximate square footage of your home?	3,500
Is your home a 1 story, 1 1/2 , or 2 story or large?	2

2018-300

Would you like a ☐ Yes
Quarry Commission
member to contact you
regarding your report?

We encourage you to attend the next meeting of the Quarry Commission.
Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

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From: noreply@civicplus.com
To: [City Administrator](#); [City Secretary](#); [Adm Liaison](#)
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report
Date: Monday, July 16, 2018 3:59:44 PM

Citizen Quarry Blast Impact Report

First Name	Charles
Last Name	Scott
Report Date	7/16/2018
Phone Number:	2106573406
E-Mail Address	
Address1	9860 Trophy Oaks Drive
Blast Date/Time:	07/16/18 1555 hrs
Please describe the event.	Large quarry blast effecting and shaking our home.
How did this blast compare to other blasts?	Much stronger than other recent blasts.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	5
What was your activity at the time of blast?	watching TV
In what general direction does you house face? (N,E,S or W)	NW
What is the approximate square footage of your home?	5500
Is your home a 1 story, 1 1/2 , or 2 story or large?	2

Would you like a Yes
Quarry Commission
member to contact you
regarding your report?

We encourage you to attend the next meeting of the Quarry Commission.
*Representatives of the monitoring company and the blasting contractor as well as
the Quarry Manager normally attend every meeting and are available to answer
questions. The Commission meets the second Monday of every other month at
6:00 PM in the City Council Chambers in City Hall.*

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2018-31Q

City Secretary

From: noreply@civicplus.com
Sent: Tuesday, July 31, 2018 4:07 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Wayne
Last Name	Davis
Report Date	7/31/2018
Phone Number:	832-985-3131
E-Mail Address	
Address1	20214 Regency Run
Blast Date/Time:	7/31/18
Please describe the event.	Shook entire house.
How did this blast compare to other blasts?	Similar to July 6 event.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	4
What was your activity at the time of blast?	Working
In what general direction does you house face? (N,E,S or W)	West
What is the approximate square footage of your home?	3,500
Is your home a 1 story, 1 1/2 , or 2 story or large?	2
Would you like a Quarry Commission member to contact you regarding	No

2018-320

your report?

We encourage you to attend the next meeting of the Quarry Commission.
Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

By filing this report, you consent to the public release of this information.

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Future Agenda Items

Quarry Commission

No Meeting in October 2018

November 12, 2018

Possibly move to November 5, 2018

Agenda deadlines:

14 days before Meetings	(10/22/18)	Quarry Commission and Staff items are due
11 days before Meetings	(10/25/18)	Quarry Commission Chair review agenda. City Attorney is sent the agenda to approval
7 days before Meetings	(10/29/18)	Post Agenda on bulletin board Quarry Commission will receive packet (allowing a day and half for corrections and additional information to be added)
6 days before Meetings	(10/30/18)	Post Agenda Packet to City Website @ noon
3 days before Meetings	(11/5/18)	(72 hours) – Local Government Code requirement for posting

Red=City Council Purple=Quarry Commission
Planning & Zoning =Green Water Commission= Blue
Pink=Impact Fee Committee
Wildlife Management Advisory Commission=Brown
City Events= Veteran's Holiday

Sun	Mon	Tues	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Approval

1. Minutes 9-10-1818

Petition/Public Hearings/Recommendation

1. Appointments/Reappointments

Discussion/Reports

1. City Council Update
2. Future Agenda Items
 - a. Set next meeting (if necessary) January 14, 2019 @ 6
 - b. Commission attendance and attendance of City Council Meetings.

Executive Session

PENDING FUTURE AGENDA ITEMS