



Distributors of Explosives

636 PADEN ROAD
New Galilee, PA 16141

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Brownfield Road C&D Landfill
2600 Brownfield Road
Raleigh, NC 27610
DNR Permit 92-31
Blast Plan

BLAST LOCATION	TBD
NUMBER HOLES	150 max
SPACING	10' max
BURDEN	10' max
DEPTH	36' max
STEMMING	7-10' max
HOLE DIAMETER	4.5" max
LBS PER DELAY	250# max
DELAY INTERVALS	150 max
SCALED DISTANCE	35 min
INITIATION	NON-ELECTRIC
SEISMOGRAPH	1 ea
SEISMIC LOCATION	CLOSEST DWELLING
BLASTING MATS	NA
POWDER FACTOR/YD	1.5 MAX
Stations #	TBD
Structures:	None within 1000 ft

WARNING SIGNALS: Three (3) audible horns/sirens of ten seconds each, 2 minutes before detonation of the blast. Two (2) audible horns/sirens of ten seconds, one minute before detonation. The all clear audible horn will be sounded for twenty (20) seconds after the blast.

Procedure for Blasting

1. Project Designations

Blasters on site: Robert McConaughy, Joe Wilhelm, & Bill Wagner

2. Safety and Health Requirements.

Audible warning signals will be done with a siren.

No on site storage of explosives. Wampum Hardware Co. will deliver to the job.

Pre-blast surveys will be done on dwellings within 1000 feet of blast area.

Both air and PPV will be monitored at the closest dwellings, structures and utilities.

Seismographs will be done by Wampum Hardware Co.

Fly rock control will be prevented by using safe confinement calculations and blasting mats when needed.

3. Methods and Procedures

Pneumatic drills will be used

Hole diameter for production blasting boreholes a max. of 4.5"

Drill pattern to be determined rock size breakage.

All blasting will be done with non-electric detonators

Type of explosives:

Manufacturer	DYNO Nobel & Wampum Hardware Co.
Types	High Explosives & Blasting agents
Dimensions	2x8 up to 5.5 x 35
Weight	1/2Lb to 35 lb sticks

Type of Detonators

Manufacture	DYNO Nobel
Type	Nonel
Delays	17, 25, 33, 67, 84 100 350, 500 ms

Loading Parameters

Maximum powder factor	1.5 lbs per cubic yard
Maximum Weight/delay	250 lbs delay

Detonator Delay Pattern

Blast will be designed so that no more than 250 lbs will detonate within 8 milliseconds. The delay pattern will vary on each blast.