

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

Please see the attached sheets, dated March 7, 2022.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: Type 1 Unlisted

Identify portions of EAF completed for this Project: Part 1 Part 2 Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information Mined Land Use Plan, response to DEC's Notice of Incomplete Applications, and the Water Withdrawal Application.

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the NYSDEC _____ as lead agency that:

A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.7(d)).

C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: RMS Gravel Bartlett-South-Dedrick Mine Expansion and water withdrawal permit application.

Name of Lead Agency: New York State Department of Environmental Conservation

Name of Responsible Officer in Lead Agency: Kevin M. Balduzzi

Title of Responsible Officer: Deputy Regional Permit Administrator

Signature of Responsible Officer in Lead Agency:

Date:

Signature of Preparer (if different from Responsible Officer)

Date:

For Further Information:

Contact Person: Kevin M. Balduzzi

Address: 615 Erie Blvd. W., Syracuse 13204

Telephone Number: 315-426-7493

E-mail: kevin.balduzzi@dec.ny.gov

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)
Other involved agencies (if any)

Applicant (if any)

Environmental Notice Bulletin: <http://www.dec.ny.gov/enb/enb.html>

March 7, 2022

State Environmental Quality Review
Negative Declaration
Notice of Determination of Non-Significance

DEC Project Number: 7-5024-00047/00003 and 00011
Mined Land Reclamation Number: 70174

This notice is issued pursuant to part 617 of the implementing regulations pertaining to Article 8 (State Environmental Quality Review Act) of the Environmental Conservation Law

The New York State Department of Environmental Conservation (the Department), as Lead Agency, has determined that the proposed action described below will not have a significant effect on the environment, and a draft environmental impact statement will not be required.

Name of Action: Expansion of the Bartlett-South-Dedrick Mine, and water withdrawal permit application.

SEQR Status: Type 1

Conditioned Negative Declaration: No

Description of Action: The New York State Department of Environmental Conservation (DEC) received a permit application from RMS Gravel Inc which includes the following actions. RMS Gravel proposes to consolidate three mines, which each have their own unique mine ID, under a single mine ID. All three mines are within the Town of Dryden, located on the north and south side of Mott Road.

Mine Name	Mine ID	DEC ID	Location
South Mine	70748	7-5024-00119	S. of Mott Rd, E. of Hart Rd.
Dedrick Mine	70976	7-5024-00249	S.W. of Mott Rd.
Bartlett Mine	70174	7-5024-00047	N. of Mott Rd.

The three mines listed above will be consolidated into a single facility henceforth known as Bartlett-South-Dedrick Mine (Mine ID 70174, DEC ID 7-5024-00047). A single permit with a new five-year term will be issued which authorizes mining activity within a 260.6-acre Life of Mine (LOM). Consolidating the mines under a single facility is considered a type 2 action (6 NYCRR Part 617.5(c)(27)) and is not subject to SEQR. The three mines currently have a cumulative LOM of 214.2-acres. In addition to consolidating the mine ID's, the proposal includes a 46.4-acre LOM expansion which is subject to SEQR.

The new 46.4-acres for the LOM expansion are in the following areas. 31.9-acres

located south of Mott Road, and west of Hart Road. 12.1-acres are located east of Hart Road, and southwest of Mott Road. 2.0-acres are located on the east side of Hart Road, across from the entrance to the George Jr. Republic School. 0.4-acres are in lands that previously separated the former Dedrick and South Mine. Please see attachment A for a graphic 'mining plan map' which shows the boundary of the consolidated mine, and the proposed new areas to be mined.

The mine areas which are located east of Hart Road, formerly known as the South and the Dedrick Mine, have a .4-acre section of land that separates the two pits. As part of the consolidation, the .4-acre area will be mined to create a single pit. The final mine floor elevation of this area will be 1115'.

Additionally, the facility applied for a water withdrawal permit for a mineral wash plant which has a capacity to withdrawal 100,000 gallons per day or more.

Mining in the expansion areas will consist of excavating sand and gravel from areas above the seasonal high-water table using a front-end loader. Material will be transported to a processing plant, located on the north side of Mott Road, via conveyor or truck. Topsoil, subsoil, and overburden will be removed in advance of mineral extraction and stored in perimeter berms for use in reclamation.

Location: The mine is located on both the north and south side of Mott Road, and the east and west side of Hart Road, in the Town of Dryden, Tompkins County. See Attachment A.

Reasons Supporting This Determination: Pursuant to State Environmental Quality Review Act (SEQRA) regulations in 6 NYCRR Part 617.7, Department staff have reviewed the Environmental Assessment Form (EAF), the mining reclamation plans and maps, and have made the determination that this project will not result in significant adverse environmental impacts and that a permit, with conditions, can be issued.

As Lead Agency, the Department has concluded that the mining and reclamation plans have been prepared, and where necessary revised to avoid, minimize, or mitigate to the greatest extent practicable adverse environmental impacts potentially associated with the project. After a full review of the application, the Department is satisfied that the requirements of ECL Article 8-0109 have been met. The following was relied upon in reaching this determination.

Soil: There will be a permanent alteration to the existing topography within the area affected by mining from the removal of in-situ sand and gravel over the 46.4-acre life of mine expansion area footprint. This impact is unavoidable because of the progressive, consumptive nature of mining. This impact is not necessarily significant or adverse. It is the public policy of New York State to support and foster the mining and minerals industry, and the alteration of affected land when properly reclaimed is an acceptable impact. Lowering the final mine floor elevation to extract additional reserves is a standard mining practice and will not result in a significant adverse impact. Topsoil will

be removed and stockpiled for the purpose of reclamation. A reclamation bond in an amount adequate to reclaim all affected land within the life of mine area will be on file with the Department before any permit issuance decision is made and will continue to be held in whatever amount is deemed necessary by the Department, over the entire operation life of the mine.

The mine is an agricultural district certified pursuant to Article 25-AA of the NYS Ag. & Markets law.

Water: There will be no loss or adverse impacts to either the quality or quantity of ground or surface waters from the development and operation of this mine. There have been no issues raised, investigations, evidence, tests, or other analysis that would lead the Department to conclude that any significant water quality or quantity problems could result from sand and gravel mining at this location. In the 46.4-acre expansion area, mining will remain above the seasonal high-water table. On the north side of Mott Road, portions of the mine include below water table mining. The area north of Mott Road, and the associated below water table mining, were previously reviewed and approved by DEC under an earlier SEQR.

The facility applied for a water withdrawal permit for its mineral wash plant. The proposal includes a withdrawal from a settling pond, and two make up wells that will be used when there is not sufficient water in the settling pond. A 10-hour pump test was conducted on the wells to evaluate the drawdown on the water table. DEC's Division of Water evaluated the results, and the associated engineering report, and determined there would not be an impact to ground or surface water resources. The mine will be permitted to withdraw 1,983,600 gallons per day. The water used by the wash plant will discharge to a settling pond for reuse by the wash plant. There will be some loss of water through evapotranspiration and absorption by the mineral.

Traffic: The 46.4-acre expansion will not increase truck traffic from the mine above existing levels.

Noise: A noise analysis, conducted within the intent of the DEC Program Policy (DEP-00-1) "Assessing and Mitigating Noise Impacts" (Sama, 2000), suggests that noise impacts from this facility will be effectively minimized by the application of appropriate Best Management Practices. Attachment B is the complete noise analysis that was submitted by the applicant.

The following is a summary of the analysis. An ambient noise measurement was taken over a period of time near the closest receptor to the expansion area. The ambient noise represents the typical background noise levels when mining is not occurring. The average ambient noise level was measured at 46.0 dBA. The noise analysis examined the noise levels from the mining operation and how this noise would impact the nearby receptors. Per DEP-00-1, "The goal for any permitted operation should be to minimize increases in sound pressure level above ambient levels at the chosen point of sound reception. Increases ranging from 0-3 dB should have no appreciable effect on

receptors. Increases from 3-6 dB may have potential for adverse noise impact only in cases where the most sensitive of receptors are present" (Sama, Assessing and Mitigating Noise Impacts, 2000, p. 13). The noise analysis demonstrated that mining within the expansion area will increase sound pressure levels at the nearest receptor by 4.8 dBA. Based upon this DEC does not anticipate a significant impact from noise.

Dust: The haul road will be graded and watered as necessary to control dust.

Cultural and Visual Resources: The expansion areas are not within an area shown on the Statewide Archaeological Inventory Map as having the potential for significant cultural or archaeological resources.

Fish and Wildlife: The Department's Threatened and Endangered Species GIS Layers were screened to determine if any protected plants or animals were found within this area. The current information available to the Department does not show this site as being occupied habitat for any Threatened or Endangered Species. Additionally, the project site is greater than 5 miles from a known occurrence of the Northern Long-Eared Bat, greater than 3 miles from an Indiana Bat maternity colony, and greater than 2 miles from an Indiana Bat summer roost. Based on this information it is not anticipated this project will impact Threatened or Endangered wildlife species.

There will be no significant adverse impact to wildlife species within the life of mine area. There will be some disruption and dislocation of wildlife species and a loss of existing habitat during the operation of the mine. This impact is unavoidable because of the human intrusion, equipment operation, stripping of vegetation and topsoil, and excavation of sand and gravel which are inherent to sand and gravel mining. The wildlife species which will be displaced are not habitat limited in this geographic area and the loss of habitat will be negligible.

Land Use Planning and Zoning: Local land use planning and land use decisions are at the discretion of local government. DEC Jurisdiction over mining does not preclude the Town's right to plan and regulate land use development. As it relates to other land use impacts, the Department finds that significant long-term adverse impacts are unlikely should this expansion be developed as proposed and mining activities proceed under a valid mining permit. Land affected by surface mining in the production of saleable aggregate products, in compliance with the policies and regulations of the MLRL, does not inevitable result in the elimination of future beneficial uses for that land. The enforcement of the MLRL permit, which includes an adequate reclamation bond held by the department over the entire operational life of the mine, and the approved final reclamation, further ensures that the long-term impact of mining at this site will not result in adverse impacts.

The application review and significance determination are for the 46.4-acre proposed life of mine expansion areas, and for the water withdrawal permit. Any future modification which in the judgement of the Department results in material change in the environmental conditions at the site, in the scope of the permitted activity, or would

**SEQR Negative Declaration DEC 7-5024-00047/0003 and 00011, MLR 70174
Reasons Supporting This Determination (Continued):**

require one or more changes to any MLRL permit conditions will be considered a new application and will be reviewed pursuant to all applicable regulations.

For Further Information:

Kevin Balduzzi
Deputy Regional Permit Administrator
Division of Environmental Permits
New York State Department of Environmental Conservation
615 Erie Blvd West
Syracuse, NY 13204
315-426-7493
Kevin.balduzzi@dec.ny.gov

For Type 1 actions a copy of this notice was sent to:

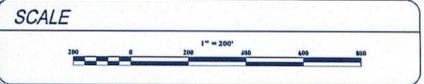
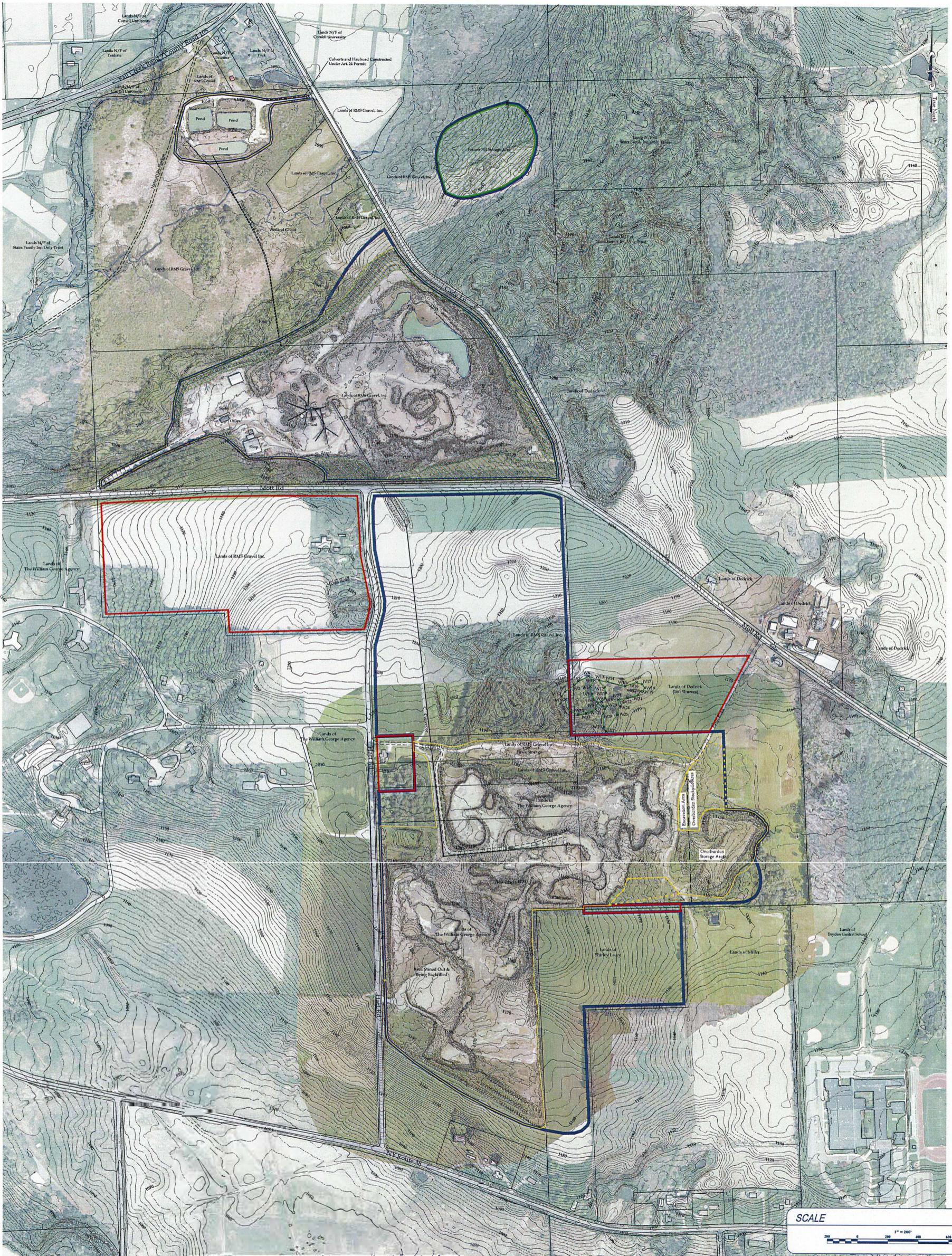
Tom Rigley, Region 7 DMR
Town CEO
RMS Gravel, Inc.
Strategic Mining Solution, LLC.
ENB

Att. Attachment A-Mining Plan Map
Attachment B- Noise Analysis
EAF Parts 1 and 2

Works Cited

Sama, J. (2000). *Assessing and Mitigating Noise Impacts*. Albany: New York State Department of Environmental Conservation.

Attachment A



MINING PLAN MAP Bartlett-South-Dedrick Mine RMS Gravel, Inc. Town Dryden, Tompkins County, NY

Dean Herrick Consulting Geologists
dherrick@rcgny.com
(613) 225-1874

strategic mining solutions
strategicminingsolutions.com

3100 West 12th Street
Suite 200
Boulder, CO 80504

Details:

- Date: March 8, 2018
- Datum: Mean Sea Level
- Scale: 1 inch = 200 feet
- 7.5' USGS Quad: Groton
- Drafted by: Millman

REVISIONS	Date	Description	By

LEGEND

- PROPERTY LINE
- CONTOUR LINE
- ACCESS ROAD
- WETLAND

NOTES

- Base map prepared from:
 - Mining Plan Map by Harrington Associates, August 2013;
 - 2008 Tompkins County LIDAR and
 - 2015 Orthophotos from NYS GIS Clearinghouse.
- Datum: Mean Sea Level
- Contour Interval: 2'

ACREAGE SUMMARY

- Area Affected by Mining (136.2 acres)
- Additional Area To Be Affected by Mining (6.0 acres)
- Area Proposed To Be Added To The Life of Mine (6.0 acres)
- Current Life of Mine Area (214.2 acres)
- Current and Proposed Life of Mine Area (260.6 acres)
- Area Reclaimed (7.1 acres)
- Area Revegetated (9.5 acres)

Attachment B

3.0 METHODS FOR PREVENTING ENVIRONMENTAL IMPACT, POLLUTION AND SOIL EROSION

3.1 DRAINAGE AND SOIL EROSION

Drainage within the excavation areas will remain internal as a result of the modification proposal.

During activities such as overburden removal and perimeter berm construction the affected areas will be monitored on a regular basis for potential offsite siltation. Stormwater discharge will be prevented by the use industry standard erosion and sedimentation controls such as staked hale bales, silt socks or silt fences wherever necessary. Activities which have the potential to generate offsite runoff are temporary and intermittent, occurring only in the initial stages of mine development. However, the applicant is obligated to monitor conditions and deploy E & S controls in advance of circumstances, such as precipitation events, to avoid unlawful stormwater discharge beyond the LOM.

3.2 DUST

The following methods will continue to be used to control dust from mining activities:

- ✘ Wooded buffers and perimeter berms surround the site.
- ✘ The excavation area will continue to be surrounded by perimeter faces. Since the most activity at a mine occurs at the bottom of the faces, the faces help screen the activity from the wind, reducing the wind velocity and reducing the potential for dust generation. The faces also help contain any fugitive dust to the site.
- ✘ The sand and gravel has a natural moisture content that helps bind finer grained particles together and minimize the generation of dust.
- ✘ In addition, all conditions in the existing Mined Land Reclamation Permit and Mined Land-Use Plan pertaining to dust suppression will continue to be followed.

3.3 TRAFFIC

No change in the volume of truck traffic is expected as a result of this modification. The volume of truck traffic is driven primarily by market conditions whereas the frequency will increase or decrease depending on sales. A surge in truck traffic may result as construction projects depending on a supply of material from the RMS facility occur, however such circumstances are temporary in nature and do not result in a sustained increase in truck volume on public roads. An exception is associated with the proposed

31.9-acre modification area which is not connected with the existing overland conveyor system.

Given that the 31.9-area is designed to supplement production from elsewhere within the proposed LOMA, bulk production is expected to be proportionally limited. Sales of unprocessed bank run material may be conducted directly from the subject area, reducing or eliminating the need for transport to the Mott Road plant. However, during specific intervals of production within the subject area some off-site hauling may be required to transport raw material a short distance to the plant on public roads.

3.4 NOISE

Potential offsite impacts from increased noise resulting from mining activities will not occur as a result of this modification proposal for the following reasons:

- ✘ No change in the method or manner of mining is proposed as part of this modification.
- ✘ The closest neighbors (receptors) to the mine and expansion areas lease their land to RMS for the mine and, as such, are stakeholders with a vested interest in its continued operation. All of the nearest receptors are occupants on lands owned by the William George Agency, Lessor to the applicant.
- ✘ The depth of excavation as part of this modification request will, in effect, create taller barriers out of the mine faces, surrounding topography and berms thereby enhancing their noise mitigation abilities above and beyond current levels.

In spite of the above-mentioned facts regarding potential impacts from noise to receptors, a Level 1 Noise Impact Assessment is provided herein by request of Department staff (refer to NOIA dated 12/6/2018). The NIA will focus on the proposed 31.9-acre expansion area because it represents the only possible potential for an increase in offsite impacts from noise.

3.4.1 Noise Impact Assessment

Noise pollution is defined by the NYSDEC in its Program Policy: Assessing and Mitigating Noise Impacts as "any loud, discordant or disagreeable sound or sounds". More commonly, in the environmental context, noise is defined simply as unwanted sound. The regulations under 6 NYCRR Part 420-425 and the SEQRA requires an assessment of potential impacts, and when necessary, the implementation of mitigation measures to minimize impacts to the extent practicable on neighbors (receptors).

Potential impacts to offsite receptors from noise generated by the proposed modification are evaluated by measuring the potential for an increase in noise modeled against the existing, or ambient, condition. The evaluation of potential impacts from noise utilized herein is described in detail in the aforementioned NYSDEC Program Policy: Assessing and Mitigating Noise Impacts. The policy document states that increases in noise levels of less than 5 dB(A) are to be considered "Unnoticed to Tolerable" for the purposes of evaluation. See table below for reference.

Increase in Sound Pressure (dB)	Human Reaction
Under 5	Unnoticed to tolerable
5 to 10	Intrusive
10 to 15	Very noticeable
15 to 20	Objectionable
Over 20	Very objectionable to intolerable

Table from Down and Stocks, 1978

This Noise Impact Assessment (NIA) was conducted to determine the potential for mining related activities conducted within the proposed 31.9-acre expansion mine area to generate unwanted sound (noise) at the nearest receptors. The NIA models projected noise levels at given points (nearest receptors) around the site by modeling operating mobile equipment as noise sources at the mine and considering attenuation factors such as distance, barriers and vegetation (mature forest). Sources of sound are modeled under "worst-case" (loudest) scenarios to be conservative in the assessment. A worst-case scenario assumes all equipment operating at once from a location within the site that is nearest the receptor. In reality, operating equipment will be further from the receptor than what is modeled and likely not all operating simultaneously. The size, type, number and basic function of operating mobile equipment is not proposed to change under this modification. The only change proposed is the space where mobile equipment will be operating and its proximity to receptors.

The following summarizes the objectives of the NIA.

- Determine a sound level baseline (ambient conditions) at the nearest receptors.

- Estimate worst-case noise levels due to proposed operations at the nearest receptors.
- Compare the existing ambient conditions against those modeled under the proposed modification mine to assess potential for resultant impacts; and
- Recommend mitigation measures to address potential impacts from noise.

3.4.1.1 Ambient Sound Level

Ambient sound is the existing sound level at a particular location under normal conditions. Ambient sound is estimated through consideration existing sources of sound such as traffic, commercial or industrial activity. These factors and others are used to generate an average sound level that is representative of conditions at the receptors prior to the proposed modification.

The nearest receptors to the proposed 31.9-acre expansion area are situated within the William George Agency campus. The WGA is a stakeholder in the project and thus should not be considered similarly to non-stakeholder receptors due to the fact they have a vested interest in the continued operation of the mine. The nearest non-stakeholder to the subject area is located 1700+/-feet from the proposed LOMB at its closest.

Ambient sound levels in the vicinity of the nearest receptors are comprised primarily of sound generated from ongoing approved mining operations and traffic traveling on NY Route 38. Other sources of sound in the vicinity come from local traffic on Mott and Hart Roads and agricultural activities, among others.

Traffic levels according to the most recent traffic count conducted by the NYSDOT on NY Route 38 in 2013 are 3,472 AADT (annual average daily traffic) with average weekday hours traffic count of 3,583 (AWDT). The Department's policy document states that "light auto traffic" at 50 feet generates sound levels in the low 50 dB(A) range. Adding all other sources of sound in the vicinity one could conservatively estimate the ambient sound level at the nearest receptor to be **52 dB(A)**.

3.4.1.2 Projected Sound Levels

Sources of potential noise pollution from the proposed 31.9-acre expansion area include mobile equipment consisting of one front-end loader and OTR dump trucks. This scenario

will consider the loader in operation at the bank or stockpile located adjacent to the bank with a dump truck being loaded and one operating in proximity.

A list of the simultaneously operating noise sources at the proposed mine site is as follows.

Sound levels of operating equipment measured at 50 feet (noise sources):

1. Front-end loader loading OTR truck = 80.8 dB(A) Caterpillar 977K (actual)
2. Over the road (OTR) dump truck #2 = 76.0 dB(A) (USDOT/FHA Construction Noise Handbook)

Combined sound level at the source = **82.1 dB(A)**

Note: Sound levels from multiple sources are not added arithmetically because they are reported on a logarithmic scale. Sound levels are added logarithmically to calculate the combined sound level. For approximation purposes, two sounds with the same sound level intensity (and frequency spectrum) will increase the overall sound pressure by approximately 3 dB. Combining noise sources where one sound level intensity is less than another will cause an overall increase of some value less than 3 dB. Once the difference between two sound levels is 10 dB or more the lower intensity sound adds little to nothing to the overall sound level.

3.4.1.3 Sound Attenuation

Sound is attenuated by several factors including distance to the receptor from the source, the nature of the surrounding and intervening topography (barriers), vegetation, wind direction and intensity, and humidity. Projected sound levels are modeled based on these factors and compared to the existing or ambient sound levels at the receptor to determine potential impacts.

Sound Attenuation by Distance: Attenuation of sound over distance follows the inverse-square law which applies when any force or energy is evenly radiated outward from a point source in three-dimensional space. The sound pressure from a spherical wave front radiating from a point source decreases by 50% (or 6.02 dB) for every doubling of distance after 50 feet.

The nearest receptor to the 31.9-acre expansion area is located 130+/-ft. from the proposed LOMB. Attenuation by distance is calculated according to the inverse square law to be 8.3 dB(A). Summarized as combined mobile equipment sound level of 82.1 dB(A) minus distance attenuation of 8.3 dB(A) equals calculated sound level at the nearest receptor of 73.8 dB(A), based on distance attenuation only.

Topographic and Barrier Attenuation: Topographic features and barriers, such as earthen berms, stockpiles and mine faces, can be utilized to attenuate sound if placed between the source and receptor. Quantitative barrier attenuation models typically use multiple octave band sound levels at a range of frequencies because sound attenuation from barriers varies among different frequencies. In this case an analysis of attenuation based on octave bands is not necessary because the receptor is within the geometrical shadow of the source of sound.

A combined barrier consisting of the production face height of 20+/-feet and a perimeter berm average height of 10 feet, is 30+/-feet.

Using the barrier attenuation formula: $N^{0.5} = (2 (r_{SB} + r_{BR} - d_{SB} - d_{BR}) / \lambda)^{0.5*}$.

Total estimated sound level attenuation from the barrier is calculated to be **23 dB(A)**.

Calculations are provided on the following pages.

* Noise and Vibration Control Engineering: Principles and Applications, Edited by Leo L. Beranek and Istvan L. Ver, John Wiley & Sons, Inc., New York, 1992.

RMS Gravel/2019 MLR Permit Modification Sound Level Attenuation Calculation Summary

Distance Attenuation

Use the following formula to determine attenuation due to distance:

Formula:
$$Lp_2 = Lp_1 - 20 \log_{10} (r_2/r_1)^*$$

Where:

r_1 is the shorter distance in the equation. In general, the shorter distance is the distance that the sound pressure level of the equipment was measured at (50 feet).

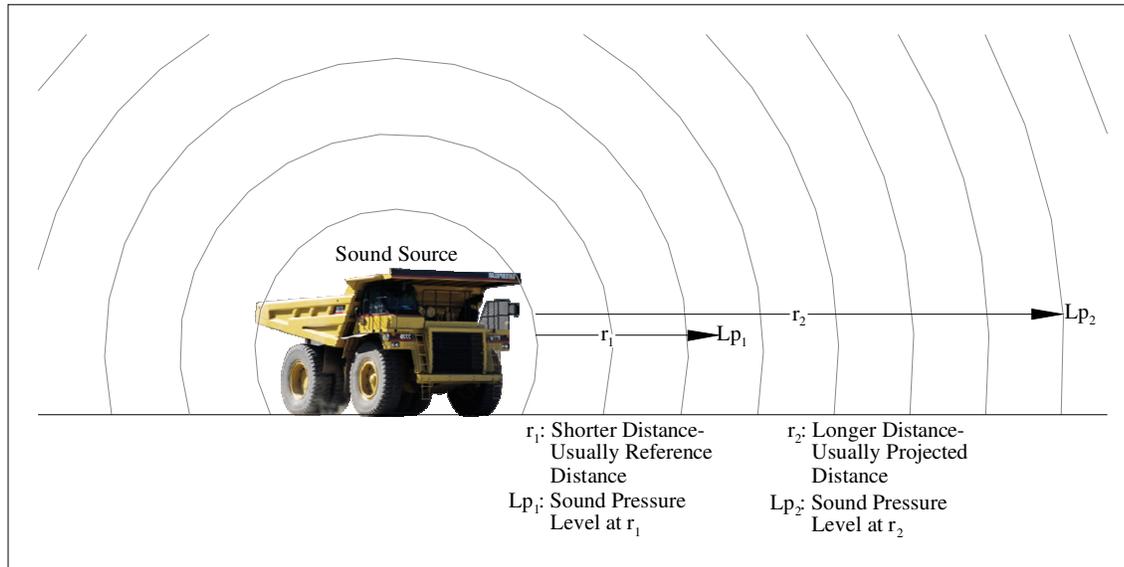
r_2 is the longer distance in the equation. In this case the longer distance is the distance between the nearest receptor and the combined noise source (130 feet).

Lp_1 is the sound pressure level at distance r_1 . In this case it is the combined sound pressure level of all of the equipment in the production scenario (82.1 dBA). See Section 3.4.1.3 in MLUP for calculation.

Lp_2 is the calculated sound pressure level at distance r_2 .

Note: This formula should only be used for distances greater than or equal to 50 feet.

Figure 1. The Relationship Between r_1 , r_2 , Lp_1 and Lp_2



* Noise and Vibration Control Engineering: Principles and Applications, Edited by Leo L. Beranek and Istvan L. Ver, John Wiley & Sons, Inc., New York, 1992, p. 166.

Insert the appropriate variables and solve for L_{p_2} :

$$\begin{aligned}L_{p_2} &= 82.1 - 20 \times \log_{10} (130/50) \\ &= 82.1 - 20 \times 0.41 \\ &= 82.1 - 8.3 \\ &= 73.8 \text{ dBA}\end{aligned}$$

Sound levels from the source are attenuated 8.3 dBA by distance.

Barrier Attenuation Calculation

Barrier Attenuation

Attenuation due to barriers is calculated using the following formula:

Formula:
$$N^{0.5} = (2 (r_{SB} + r_{BR} - d_{SB} - d_{BR}) / \lambda)^{0.5*}$$

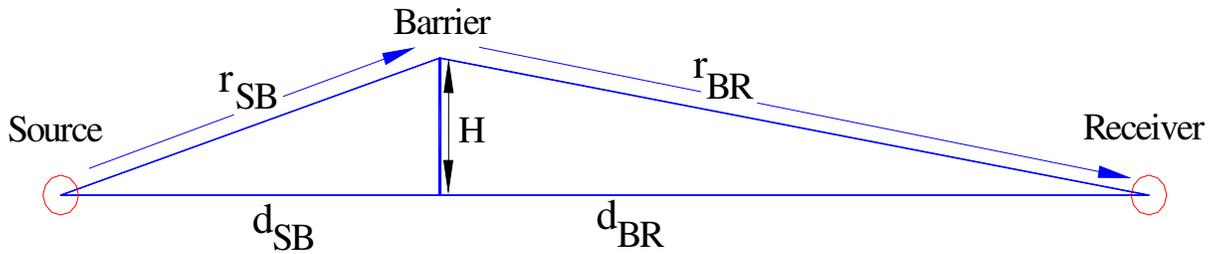


Figure 2. The relationship between the variable in the barrier attenuation formula.

Where:

$N^{0.5}$ = Fresnel Number used in the fresnel chart to determine the attenuation due to barriers.

r_{SB} = Distance from source to top of barrier

r_{BR} = Distance from top of barrier to receiver

d_{SB} = Straight line distance from source to barrier

d_{BR} = Straight line distance from barrier to receiver

λ = Wavelength in meters

The distances were determined by generating cross-sections using Carlson SurvCAD are:

$$r_{SB} = 64'$$

$$r_{BR} = 150'$$

$$d_{SB} = 60'$$

$$d_{BR} = 150'$$

$$\lambda = 1.129' \clubsuit$$

* Noise and Vibration Control Engineering: Principles and Applications, Edited by Leo L. Beranek and Istvan L. Ver, John Wiley & Sons, Inc., New York, 1992.

♣ This wavelength was chosen because it produces attenuation values that are the closest equivalent to the attenuation values obtained utilizing a full octave band spectral analysis of the equipment involved in this study. The wavelength is calculated by dividing the speed of sound at standard temperature and pressure and dividing by the frequency in Hz.

Insert the appropriate variables and solve for $N^{0.5}$:

$$\begin{aligned}
 N^{0.5} &= (2 (64 + 150 - 60 - 150) / 1.129)^{0.5} \\
 &= (2 (4) / 1.129)^{0.5} \\
 &= (7.1)^{0.5} \\
 &= 2.7 \text{ (Fresnel Number)}
 \end{aligned}$$

Use the fresnel number chart to obtain the barrier attenuation based on the calculated fresnel number (use the “any point source” line) as shown below:

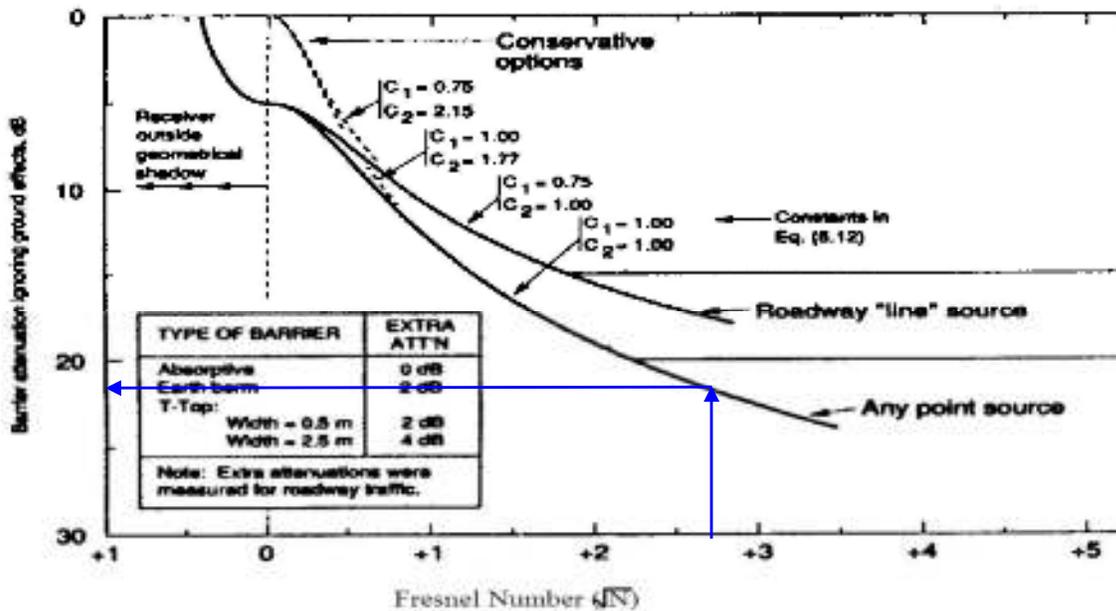


Figure 3. Cross Referencing the Fresnel Number to Obtain the Barrier Attenuation. Attenuation due to barriers derived from Fresnel Number (From Beranek).

Using the fresnel number of 2.7, a barrier attenuation value of 21 is the result (as illustrated by the blue arrows on Figure 3 above). Extra attenuation can be added to this value depending on the nature of the intervening barrier (see Extra Attenuation box in Figure 3 above). In this case the intervening barrier is an earthen structure so the attenuation is increased by 2 for a total of 23.

Summary of Sound Level Attenuation Factors

1. Attenuation by Distance = -8.3 dBA
2. Barrier Attenuation = -23 dBA

Combined Sound Level at the Source: 82.1 dBA

Distance & Barrier Attenuation: -31.3 dBA

Calculated Sound Level at 400+/-feet (nearest receptor): 50.8 dBA

3.4.1.4 Project Sound Level

The ambient sound level at the nearest receptor was estimated to be 52 dB(A) in section 3.4.1.1. The sources of sound which includes three units of operating equipment running simultaneously from a point closest to the nearest receptor was calculated at 82.1 dB(A). Sound level attenuation by distance was calculated to be 8.3 dB(A) and barrier attenuation to be 23 dB(A) for a combined sound level attenuation of 31.3 dBA. Thus, the sound level projected from the modification area perceived at the nearest receptor is 50.8 dB(A) at its absolute loudest. When compared against the estimated ambient sound level of 52 dB(A), no increase in sound levels from the proposed modification are expected at the nearest receptor.

Projected increase in sound levels at the nearest receptor is **0 dB(A)**.

3.5 VISUAL IMPACTS

The potential for visual impacts will not increase as a result of this modification for the following reasons:

- ✂ The increased depth of excavation as part of this modification request will, in effect, create taller barriers out of the mine faces, surrounding topography and berms thereby enhancing their visual mitigation abilities above and beyond current levels.
- ✂ Woods, hedgerows and berms around the site will continue to provide an ample visual screen.
- ✂ The closest neighbors to the mine and expansion areas lease their land to RMS for the mine.

3.6 GROUNDWATER

The groundwater table varies over the site but areas not approved for below water mining will continue to remain well above the projected water table elevation of 1070-1090'.

3.7 WETLANDS

A 1.78-acre isolated wetland was delineated on August 22, 2018 by North Country Ecological Services on lands of Dedrick. RMS is in the process of obtaining a Jurisdictional Determination from the Army Corps. prior to excavation. The location of the wetland is shown on the enclosed Mining Plan Map.

May 5, 2021

Mr. Kevin Balduzzi
NYS Department of Environmental Conservation
Division of Environmental Permits, Region 7
615 Erie Boulevard West
Syracuse, New York 13204

RE: Notice of Incomplete Application: DEC ID# 7-5024-00047/00003
RMS Gravel, Inc.
Town of Dryden, Tompkins County

Dear Mr. Balduzzi:

The following are responses to comments raised in your February 10, 2021 Notice of Incomplete Application (NOIA) letter regarding the RMS Gravel, Inc. Mined Land Reclamation Permit Modification for their Bartlett Pit, South Mine and Dedrick Mine. Each of the NOIA letter's comments are broken out and addressed individually below.

Comment:

The estimated ambient noise level of 52 dB(A) reflects noise from traffic at 50 feet. It may not accurately represent the ambient noise levels at the structures adjacent to the western proposed LOM boundary. Please provide a measured ambient for these structures and incorporate this into your assessment of noise impacts.

Response:

A baseline study of existing ambient sound levels was conducted in accordance with the guidelines outlined in ANSI S12.18: *Procedures for Measurement of Sound Pressure Level*. A series of eight ambient sound levels were acquired adjacent to the William George Agency property on April 26th, 2021 while the RMS overland conveyor and main processing plant were not operating. With the main plant and conveyor shut down, the ambient sound levels in the vicinity of the project and receptors properties were primarily dominated by noise from traffic on Mott Road and traffic on the William George Agency internal roads.

The ambient sound level monitoring location is shown on the enclosed Site Plan Map and is summarized on the following table. Ambient sound level and calibration documentation is enclosed.

Monitoring Location	Description	Composite Ambient Sound Level
A1	Southwest corner of field, outside of wooded area to minimize leaf noise.	46.0 dBA

Table 1. Ambient Sound Level

As discussed in the March 2019 Mining Permit Renewal and Modification submission, the sound level projected from the modification area at the nearest receptor is 50.8 dB(A) at its absolute loudest. When compared against the composite ambient sound level of 46.0 dB(A) the worst-case projected increase at the nearest receptor is 4.8 dB(A) at full buildout.

Actual mining related sound levels at the receptor will be less than projected due to the combination of worst-case equipment modeling combined with a conservative approach to attenuation calculation that included:

- ⊗ Not factoring in atmospheric attenuation (following ANSI Standard S1.26);
- ⊗ Not factoring any attenuation due to vegetation;
- ⊗ Assuming all ground surfaces were acoustically hard and no ground attenuation was applied and
- ⊗ Not factoring in any attenuation from buildings. As identified on page 10 of the NYSDEC Program Policy: Assessing and Mitigation Noise Impacts: “In general, building walls and windows that are closed provide a 15 dB reduction in noise levels. Building walls with the windows open allow for only a 5 dB reduction in SPL.”

Comment:

Under section 3.4.1.1, second paragraph, the narrative states the William George Agency (WGA) is a stakeholder in this proposal and should not be considered similarly to non-stakeholders. This statement will need to be substantiated by the Superintendent or the WGA president or removed from the narrative. If the WGA is not concerned with noise impacts from the expansion area, RMS may submit a noise waiver signed by the WGA president or Superintendent in place of a measured ambient requested above.

Response:

As one of the surface landowners and mineral owners of the Bartlett-South-Dedrick Mine, The William George Agency reviewed the paperwork and signed lines 19 and 20 of the Mining Permit Application Form which states that they “...hereby irrevocably consent and agree to the performance of the Mined Land Use Plan by the applicant..”.

Comment:

Water Withdrawal

A water withdrawal permit is required for systems that can withdrawal 100,000 gallons per day or more and is not based on the facility's actual consumption of water. Per an 11/13/2020 email, this facility has a 50 foot deep well with a pump rated at 200 gallons per minute. A water withdrawal permit will be required for the facility's withdrawal and washing operation. Please submit a water withdrawal application with an engineering report prepared and stamped by a professional engineer licensed in the State of New York. The link below will provide access to application forms, and attached to this email is a suggested engineer report format.

<https://www.dec.ny.gov/permits/6377.html>

Response:

A Water Withdrawal Permit application has been prepared by HRP Associates, Inc. and an electronic copy of the paperwork submitted to InitialWWPermits@dec.ny.gov; HRP Associates is also sending hard copies of the paperwork to the Department.

Please feel free to contact me with any questions or comments you may have.

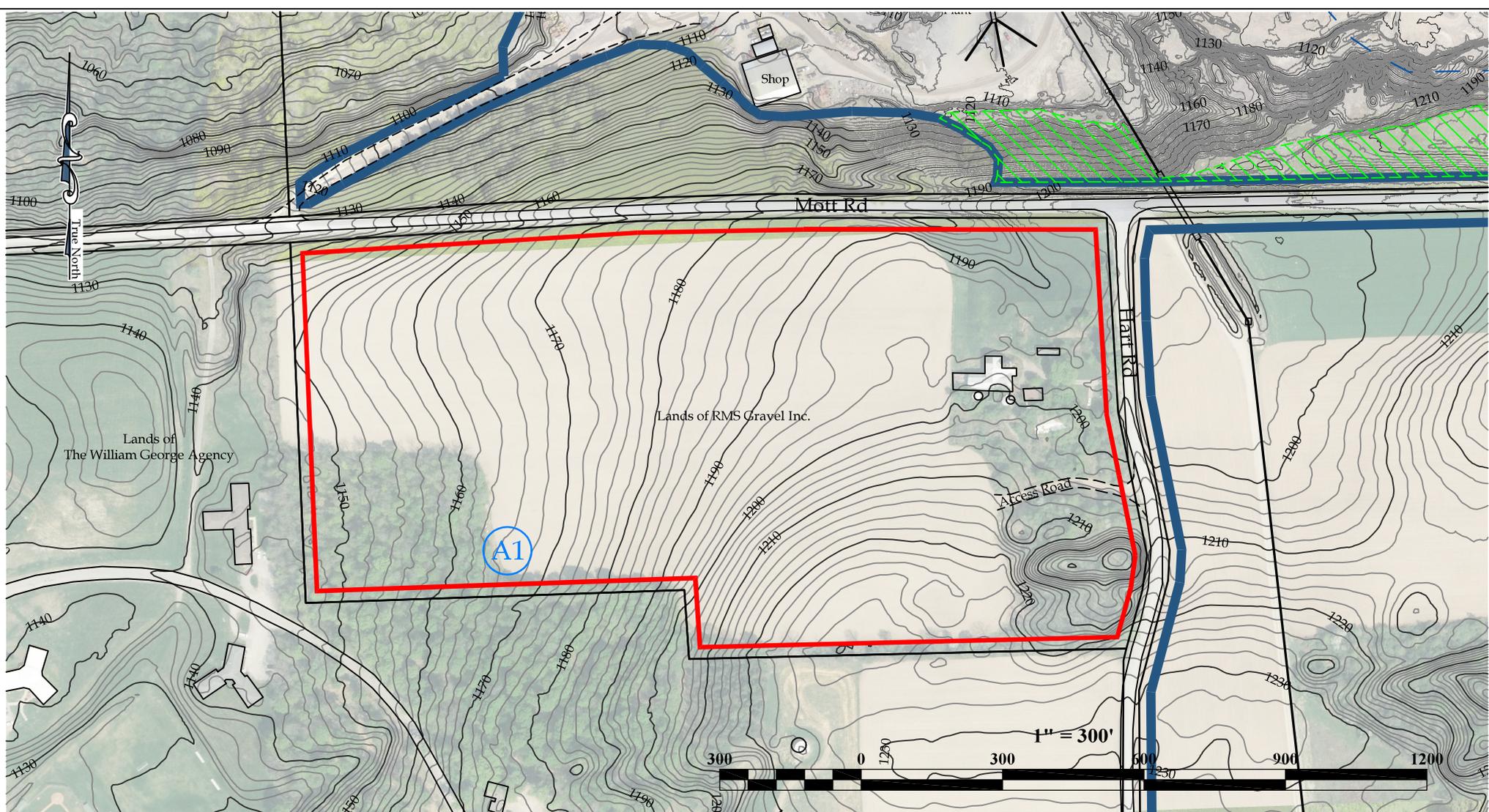
Thank you,

A handwritten signature in black ink, appearing to read "Brian Milliman". The signature is fluid and cursive, with a long horizontal stroke at the end.

Brian Milliman
Consulting Geologist

enc

cc Roy Reeves, RMS Gravel, Inc.



SITE PLAN MAP
 Showing Ambient Monitoring Location
 Bartlett-South-Dedrick Mine
 RMS Gravel, Inc.
 Town Dryden, Tompkins County, NY

Dean Herrick Consulting Geologists
 dhheric@nycap.rr.com
 (518) 225-1874

strategic mining solutions
 prospecting • planning • permitting • problem solving

Strategic Mining Solutions LLC
 Geologists & Mining Consultants
 473 Brockway Road / Frankfurt, New York 13340

Devon Shook 315.725.3734
 dean@strategicminingsolutions.com Brian Milliman 315.725.6259
 brian@strategicminingsolutions.com

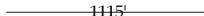
Details:

- Date: August 22, 2018
- Datum: Mean Sea Level
- Scale: 1 inch = 300 feet
- 7.5' USGS Quad: Groton
- Drafted by: Milliman

REVISIONS		
Date	Description	By
4/26/21	Add Ambient Location	BTM

LEGEND

PROPERTY LINE 

CONTOUR LINE 

ACCESS ROAD 

WETLAND 

AMBIENT MEASUREMENT 

NOTES

1. Base map prepared from:
- Mining Plan Map by Harrington Associates, August 2013;
- 2008 Tompkins County LiDAR and
- 2015 Orthophotos from NYS GIS Clearinghouse.
3. Datum: Mean Sea Level
4. Contour Interval: 2'

Session Report

4/26/2021

Information Panel

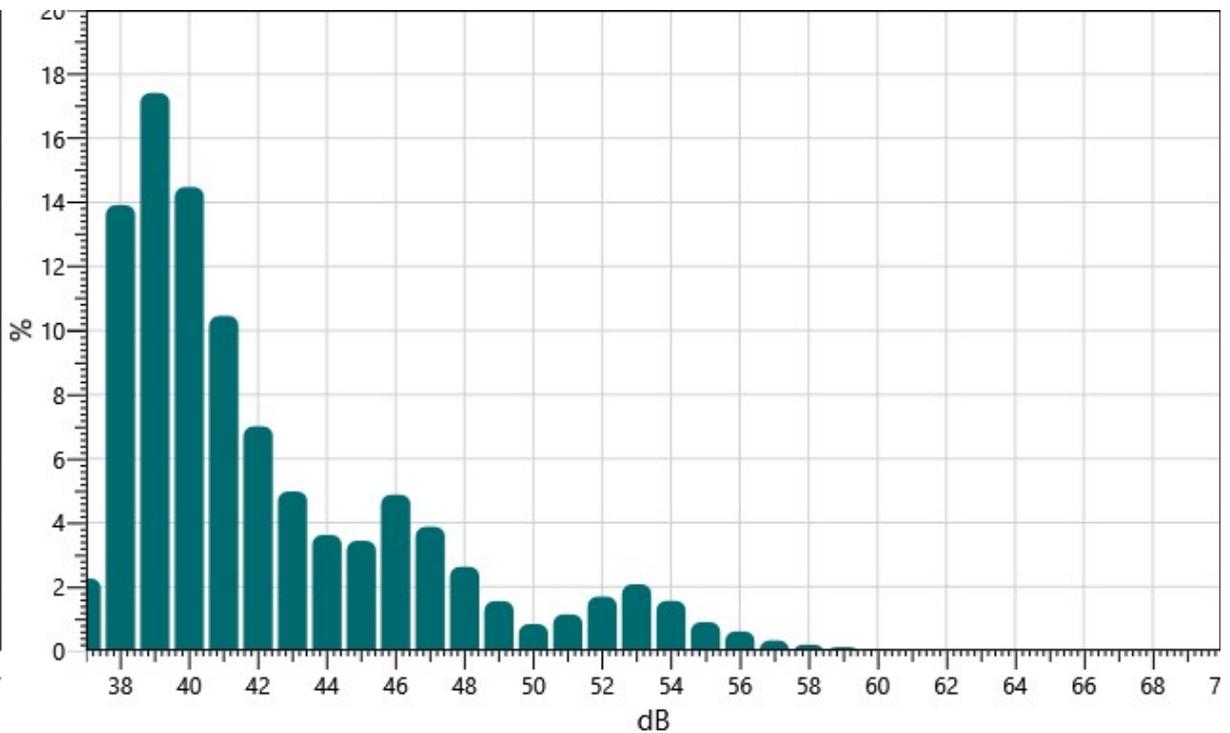
Name 1
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Stop Time 4/26/2021 8:36:43 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

1: Statistics Chart

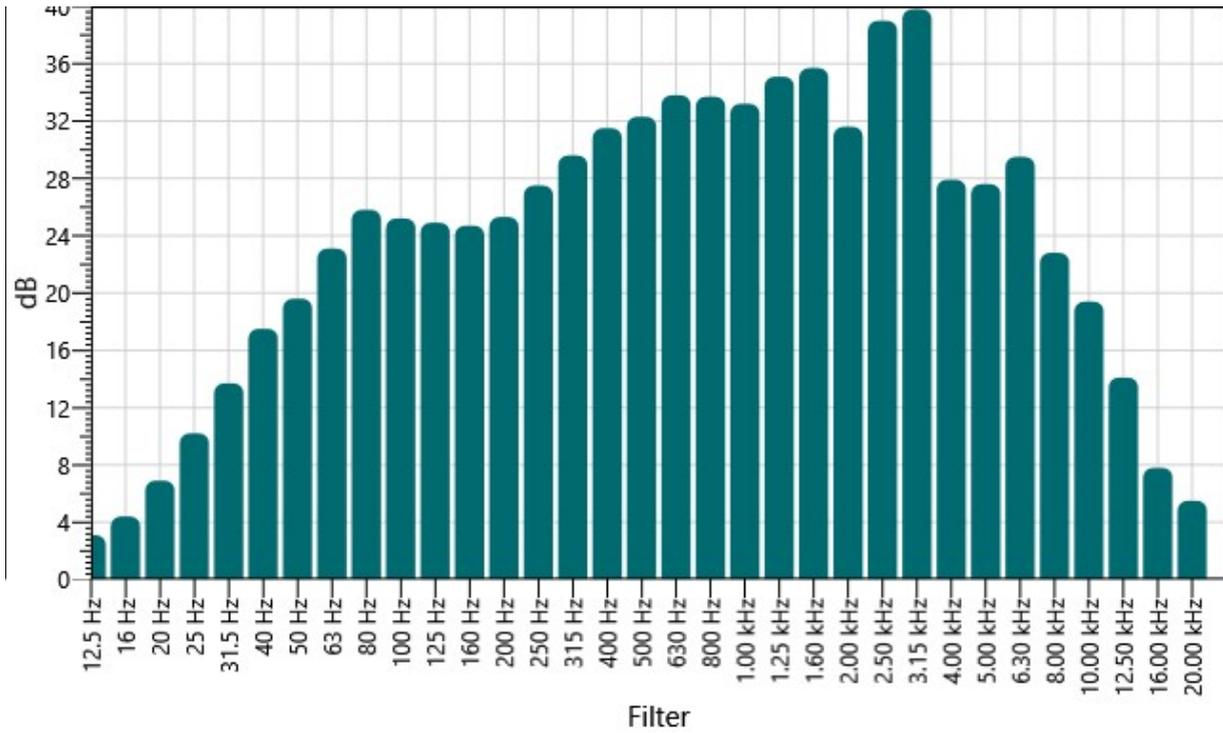


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	3.1 dB
16 Hz	4.4 dB
20 Hz	6.9 dB
25 Hz	10.2 dB
31.5 Hz	13.7 dB
40 Hz	17.5 dB
50 Hz	19.6 dB
63 Hz	23.1 dB
80 Hz	25.8 dB
100 Hz	25.2 dB
125 Hz	24.9 dB
160 Hz	24.7 dB
200 Hz	25.3 dB
250 Hz	27.5 dB
315 Hz	29.6 dB
400 Hz	31.5 dB
500 Hz	32.3 dB
630 Hz	33.8 dB
800 Hz	33.7 dB
1.00 kHz	33.2 dB
1.25 kHz	35.1 dB
1.60 kHz	35.7 dB
2.00 kHz	31.6 dB
2.50 kHz	39 dB
3.15 kHz	39.8 dB
4.00 kHz	27.9 dB
5.00 kHz	27.6 dB
6.30 kHz	29.5 dB
8.00 kHz	22.8 dB
10.00 kHz	19.4 dB
12.50 kHz	14.1 dB
16.00 kHz	7.8 dB
20.00 kHz	5.5 dB

Filter Summary Chart - Lavg

1: Filter Summary Chart - Lavg



Session Report

4/26/2021

Information Panel

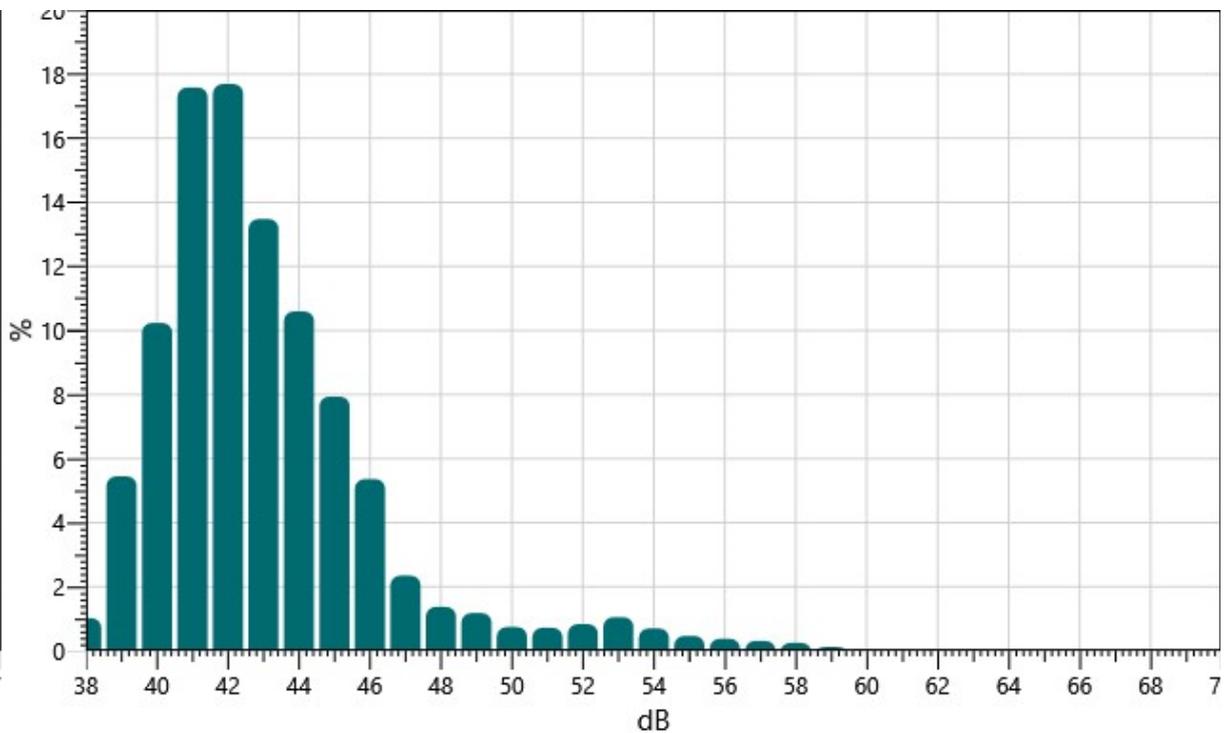
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Start Time 4/26/2021 8:37:39 AM
Stop Time 4/26/2021 8:52:40 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

2: Statistics Chart

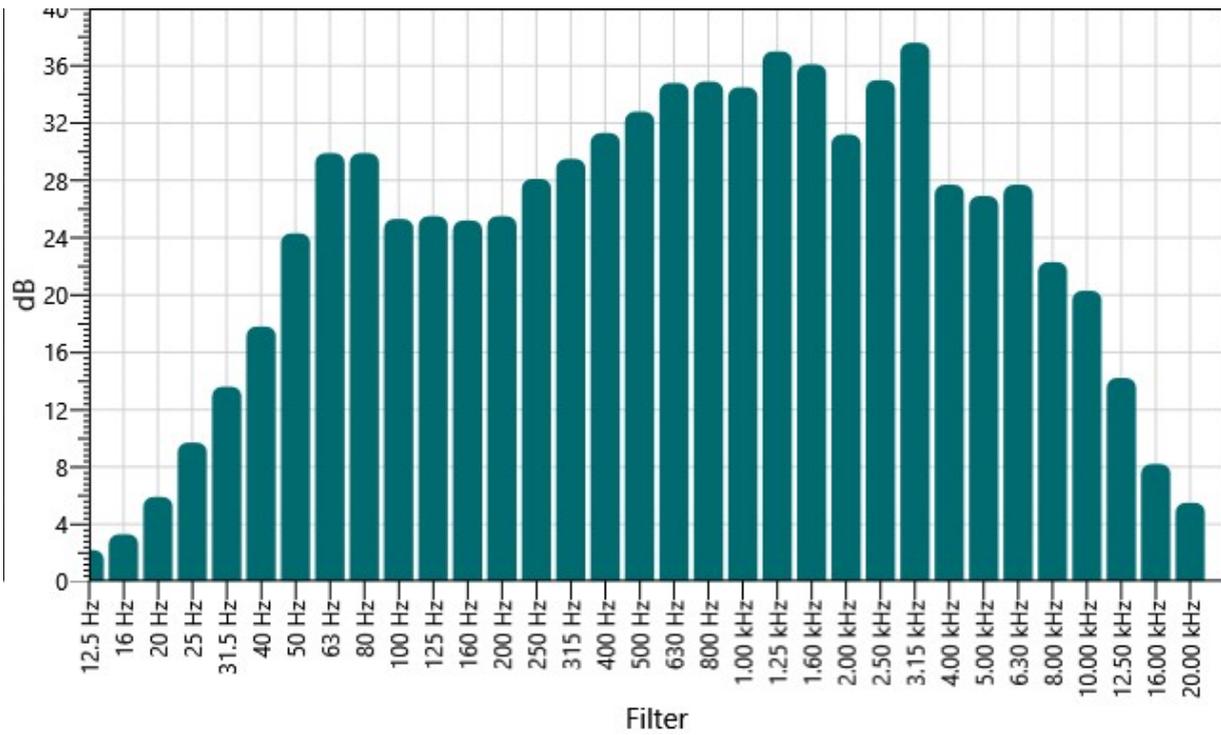


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	2.2 dB
16 Hz	3.3 dB
20 Hz	5.9 dB
25 Hz	9.7 dB
31.5 Hz	13.6 dB
40 Hz	17.8 dB
50 Hz	24.3 dB
63 Hz	29.9 dB
80 Hz	29.9 dB
100 Hz	25.3 dB
125 Hz	25.5 dB
160 Hz	25.2 dB
200 Hz	25.5 dB
250 Hz	28.1 dB
315 Hz	29.5 dB
400 Hz	31.3 dB
500 Hz	32.8 dB
630 Hz	34.8 dB
800 Hz	34.9 dB
1.00 kHz	34.5 dB
1.25 kHz	37 dB
1.60 kHz	36.1 dB
2.00 kHz	31.2 dB
2.50 kHz	35 dB
3.15 kHz	37.6 dB
4.00 kHz	27.7 dB
5.00 kHz	26.9 dB
6.30 kHz	27.7 dB
8.00 kHz	22.3 dB
10.00 kHz	20.3 dB
12.50 kHz	14.2 dB
16.00 kHz	8.2 dB
20.00 kHz	5.5 dB

Filter Summary Chart - Lavg

2: Filter Summary Chart - Lavg



Session Report

4/26/2021

Information Panel

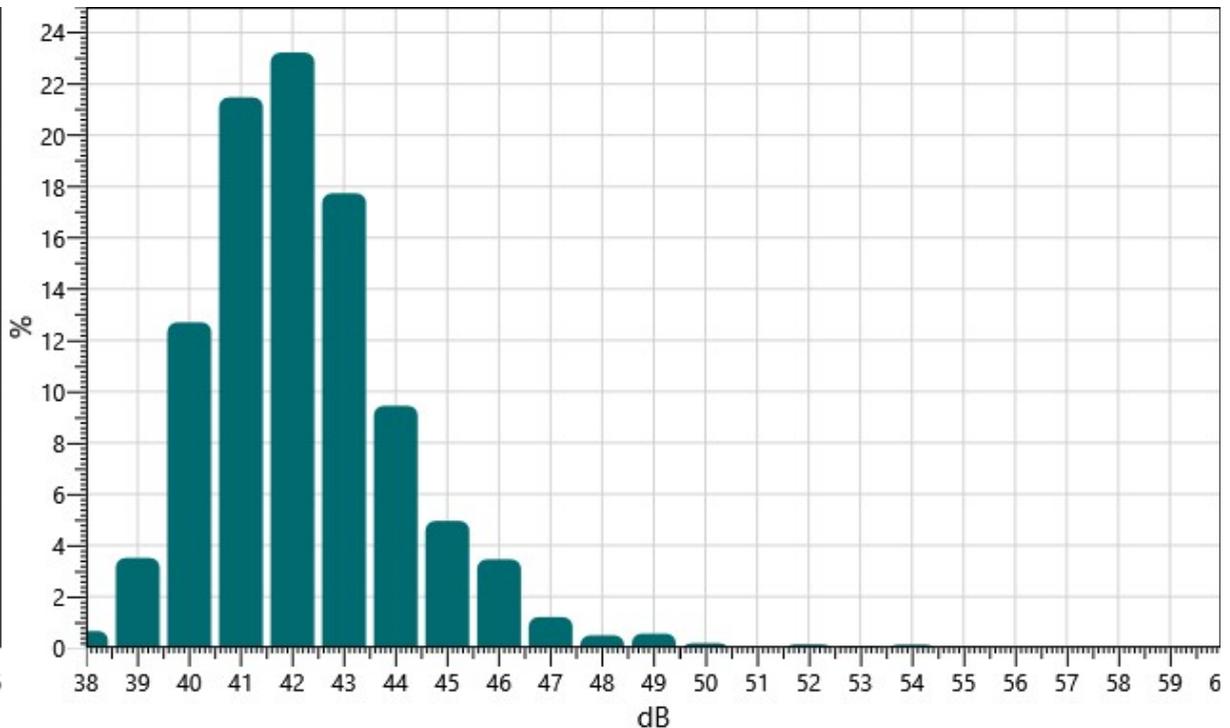
Name 3
Start Time 4/26/2021 8:52:53 AM
Stop Time 4/26/2021 9:07:55 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

3: Statistics Chart

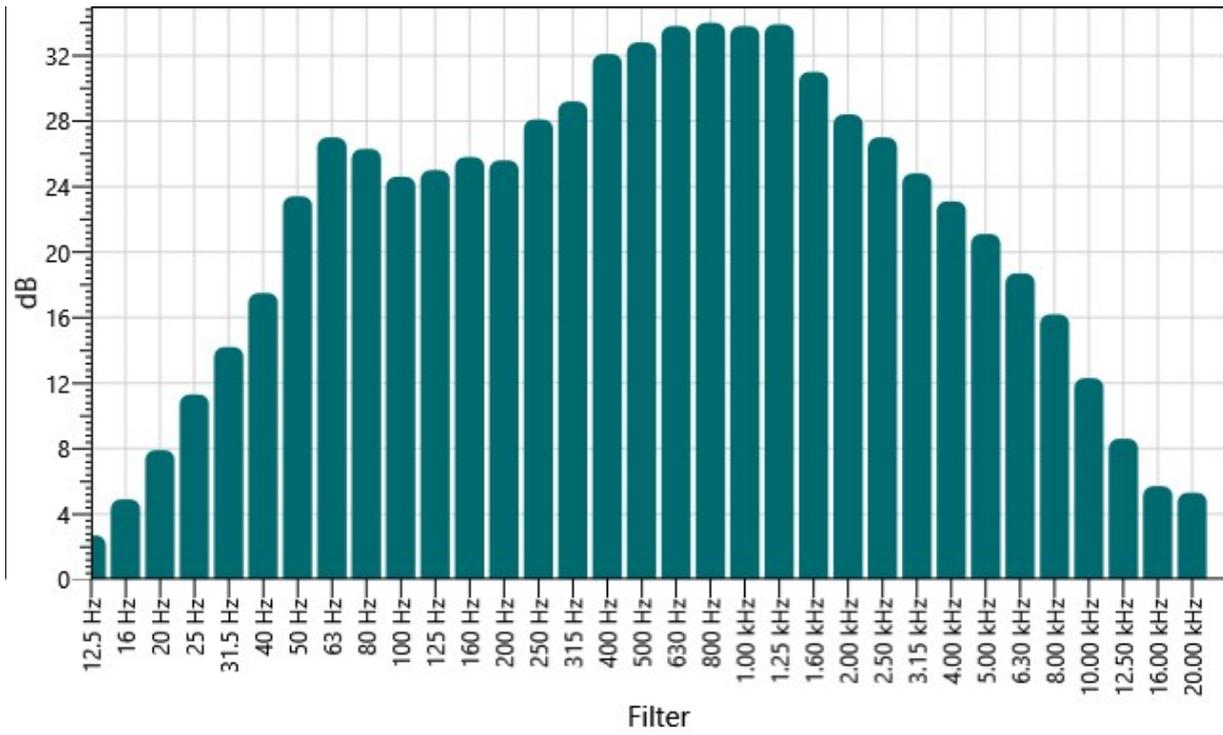


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	2.7 dB
16 Hz	4.9 dB
20 Hz	7.9 dB
25 Hz	11.3 dB
31.5 Hz	14.2 dB
40 Hz	17.5 dB
50 Hz	23.4 dB
63 Hz	27 dB
80 Hz	26.3 dB
100 Hz	24.6 dB
125 Hz	25 dB
160 Hz	25.8 dB
200 Hz	25.6 dB
250 Hz	28.1 dB
315 Hz	29.2 dB
400 Hz	32.1 dB
500 Hz	32.8 dB
630 Hz	33.8 dB
800 Hz	34 dB
1.00 kHz	33.8 dB
1.25 kHz	33.9 dB
1.60 kHz	31 dB
2.00 kHz	28.4 dB
2.50 kHz	27 dB
3.15 kHz	24.8 dB
4.00 kHz	23.1 dB
5.00 kHz	21.1 dB
6.30 kHz	18.7 dB
8.00 kHz	16.2 dB
10.00 kHz	12.3 dB
12.50 kHz	8.6 dB
16.00 kHz	5.7 dB
20.00 kHz	5.3 dB

Filter Summary Chart - Lavg

3: Filter Summary Chart - Lavg



Session Report

4/26/2021

Information Panel

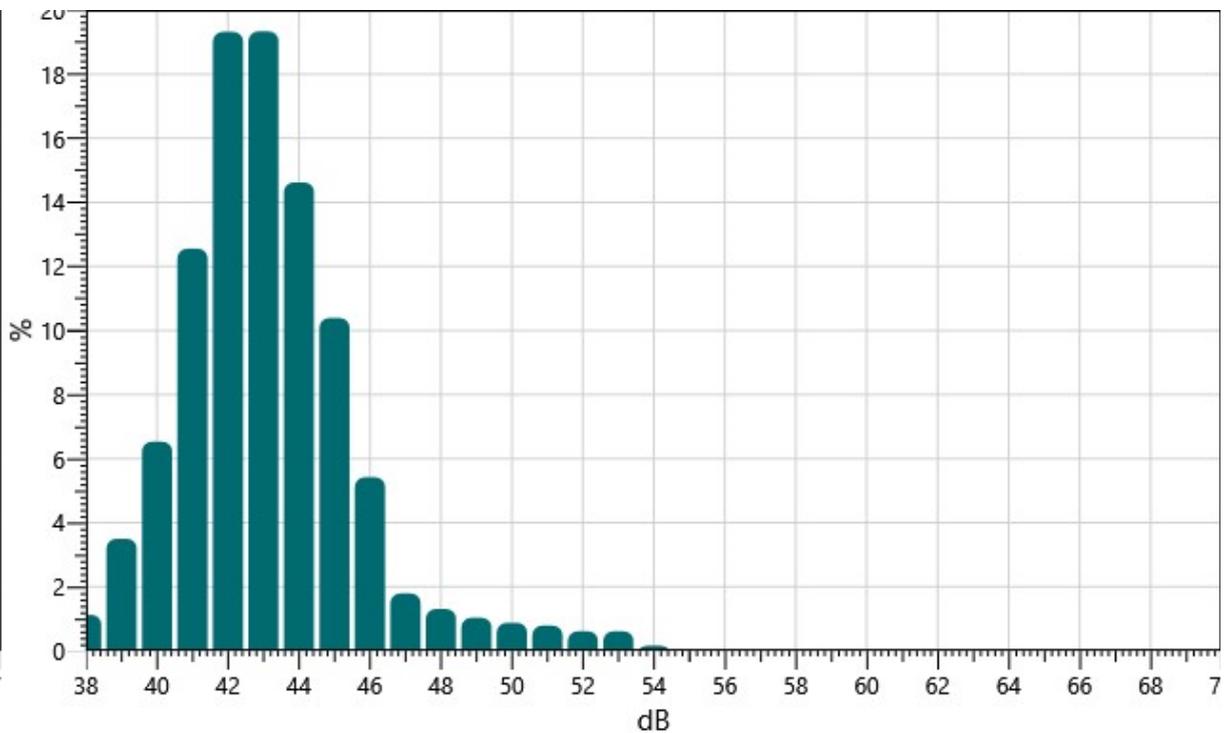
Name 4
Start Time 4/26/2021 9:08:04 AM
Stop Time 4/26/2021 9:23:05 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

4: Statistics Chart

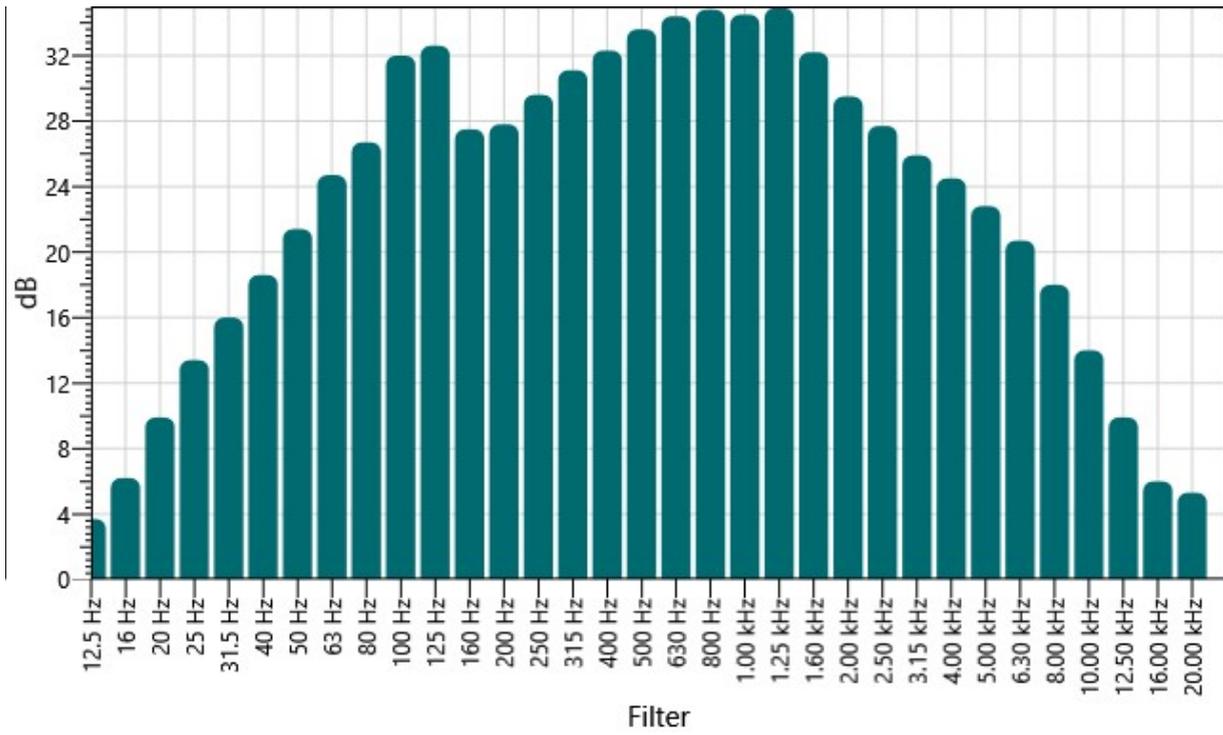


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	3.7 dB
16 Hz	6.2 dB
20 Hz	9.9 dB
25 Hz	13.4 dB
31.5 Hz	16 dB
40 Hz	18.6 dB
50 Hz	21.4 dB
63 Hz	24.7 dB
80 Hz	26.7 dB
100 Hz	32 dB
125 Hz	32.6 dB
160 Hz	27.5 dB
200 Hz	27.8 dB
250 Hz	29.6 dB
315 Hz	31.1 dB
400 Hz	32.3 dB
500 Hz	33.6 dB
630 Hz	34.4 dB
800 Hz	34.8 dB
1.00 kHz	34.5 dB
1.25 kHz	34.9 dB
1.60 kHz	32.2 dB
2.00 kHz	29.5 dB
2.50 kHz	27.7 dB
3.15 kHz	25.9 dB
4.00 kHz	24.5 dB
5.00 kHz	22.8 dB
6.30 kHz	20.7 dB
8.00 kHz	18 dB
10.00 kHz	14 dB
12.50 kHz	9.9 dB
16.00 kHz	6 dB
20.00 kHz	5.3 dB

Filter Summary Chart - Lavg

4: Filter Summary Chart - Lavg



Session Report

4/26/2021

Information Panel

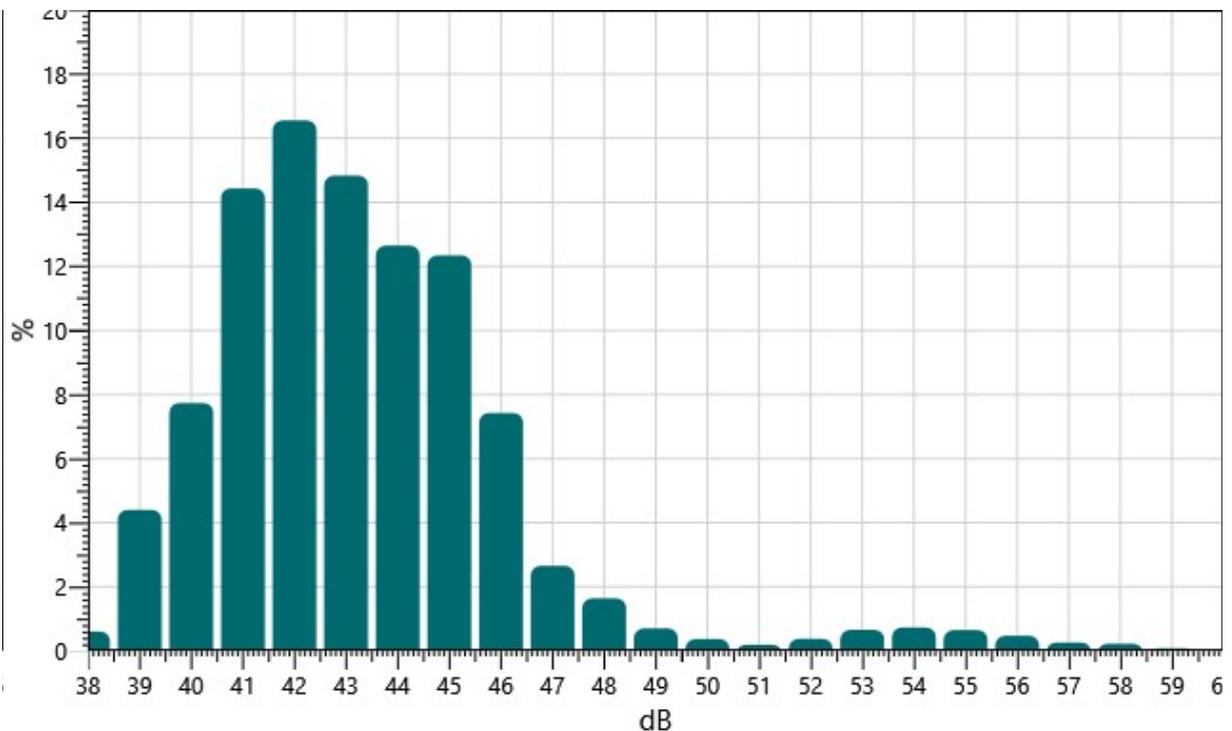
Name 5
Start Time 4/26/2021 9:23:25 AM
Stop Time 4/26/2021 9:38:26 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

5: Statistics Chart

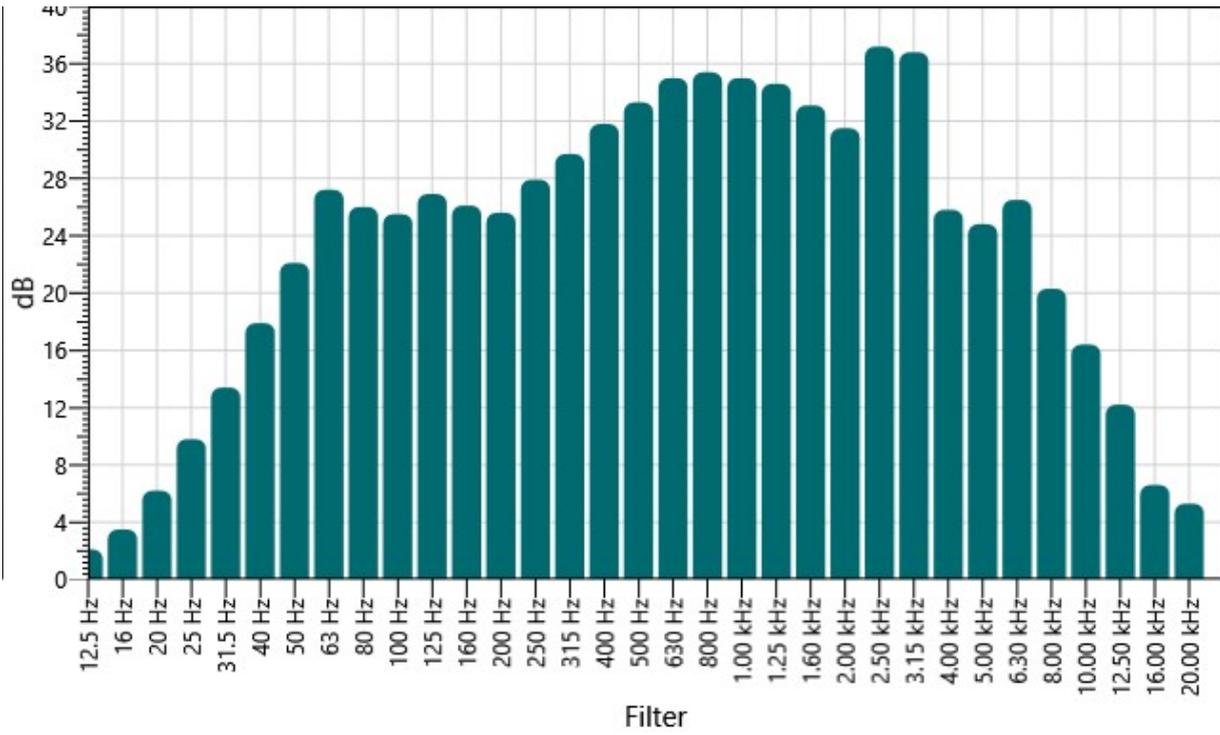


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	2.1 dB
16 Hz	3.5 dB
20 Hz	6.2 dB
25 Hz	9.8 dB
31.5 Hz	13.4 dB
40 Hz	17.9 dB
50 Hz	22.1 dB
63 Hz	27.2 dB
80 Hz	26 dB
100 Hz	25.5 dB
125 Hz	26.9 dB
160 Hz	26.1 dB
200 Hz	25.6 dB
250 Hz	27.9 dB
315 Hz	29.7 dB
400 Hz	31.8 dB
500 Hz	33.3 dB
630 Hz	35 dB
800 Hz	35.4 dB
1.00 kHz	35 dB
1.25 kHz	34.6 dB
1.60 kHz	33.1 dB
2.00 kHz	31.5 dB
2.50 kHz	37.2 dB
3.15 kHz	36.8 dB
4.00 kHz	25.8 dB
5.00 kHz	24.8 dB
6.30 kHz	26.5 dB
8.00 kHz	20.3 dB
10.00 kHz	16.4 dB
12.50 kHz	12.2 dB
16.00 kHz	6.6 dB
20.00 kHz	5.3 dB

Filter Summary Chart - Lavg

5: Filter Summary Chart - Lavg



Session Report

4/26/2021

Information Panel

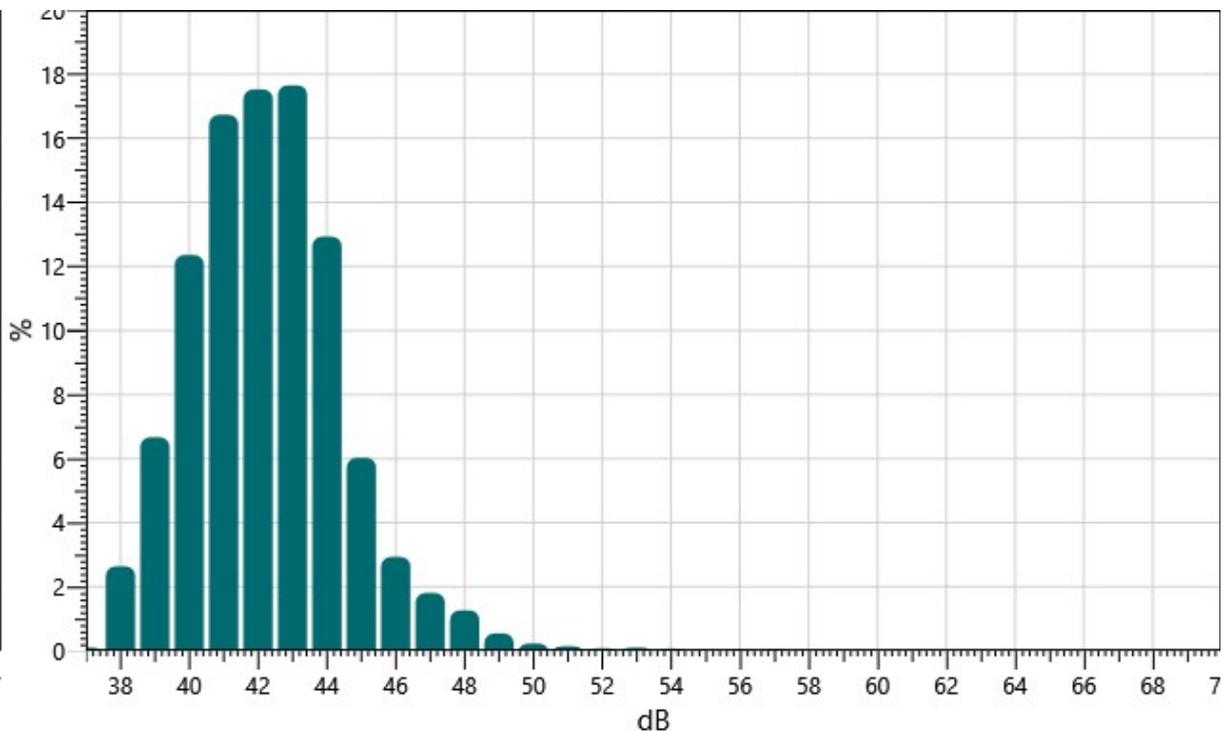
Name 6
Start Time 4/26/2021 9:38:36 AM
Stop Time 4/26/2021 9:53:37 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

6: Statistics Chart

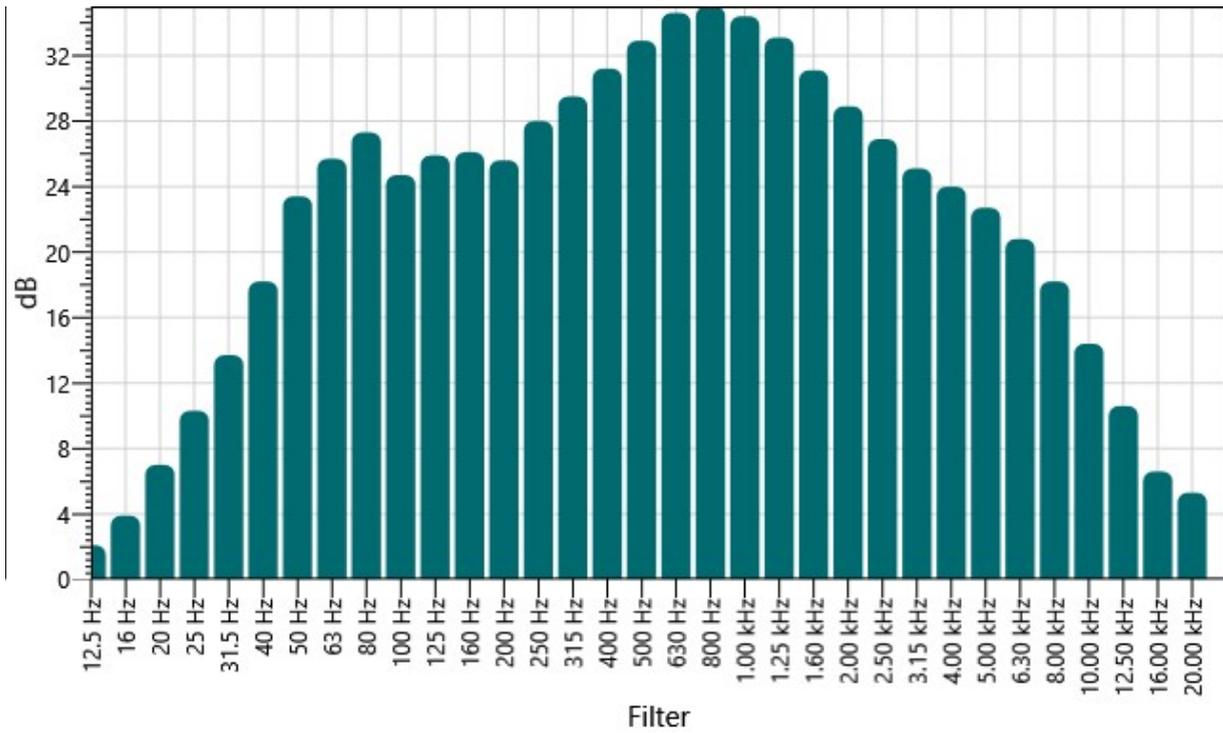


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	2.1 dB
16 Hz	3.9 dB
20 Hz	7 dB
25 Hz	10.3 dB
31.5 Hz	13.7 dB
40 Hz	18.2 dB
50 Hz	23.4 dB
63 Hz	25.7 dB
80 Hz	27.3 dB
100 Hz	24.7 dB
125 Hz	25.9 dB
160 Hz	26.1 dB
200 Hz	25.6 dB
250 Hz	28 dB
315 Hz	29.5 dB
400 Hz	31.2 dB
500 Hz	32.9 dB
630 Hz	34.6 dB
800 Hz	35 dB
1.00 kHz	34.4 dB
1.25 kHz	33.1 dB
1.60 kHz	31.1 dB
2.00 kHz	28.9 dB
2.50 kHz	26.9 dB
3.15 kHz	25.1 dB
4.00 kHz	24 dB
5.00 kHz	22.7 dB
6.30 kHz	20.8 dB
8.00 kHz	18.2 dB
10.00 kHz	14.4 dB
12.50 kHz	10.6 dB
16.00 kHz	6.6 dB
20.00 kHz	5.3 dB

Filter Summary Chart - Lavg

6: Filter Summary Chart - Lavg



Session Report

4/26/2021

Information Panel

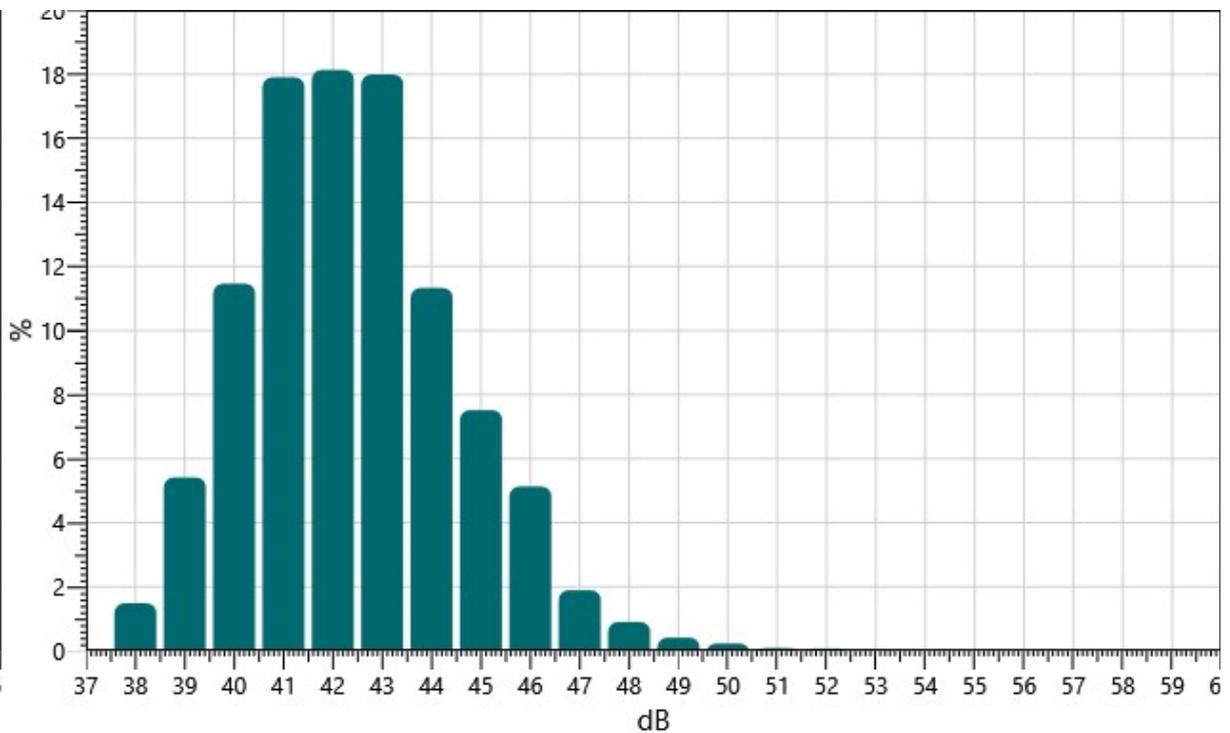
Name 7
Start Time 4/26/2021 9:53:45 AM
Stop Time 4/26/2021 10:08:46 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

7: Statistics Chart

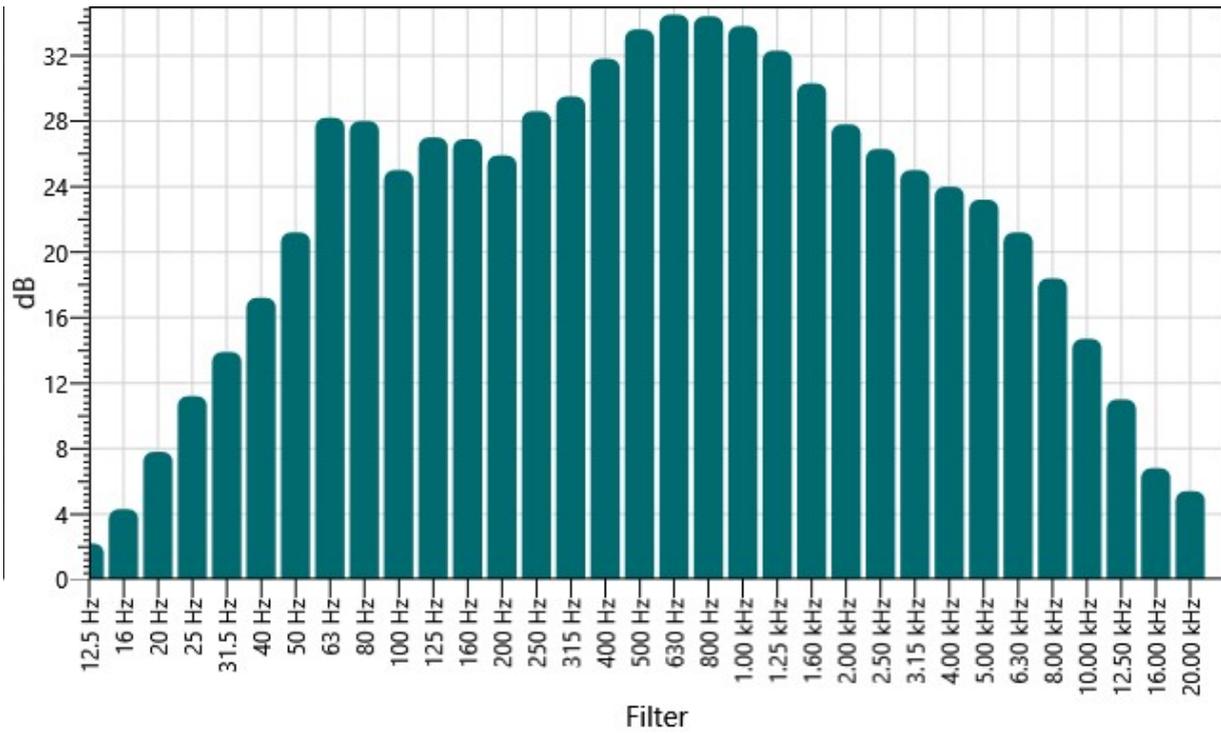


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	2.2 dB
16 Hz	4.3 dB
20 Hz	7.8 dB
25 Hz	11.2 dB
31.5 Hz	13.9 dB
40 Hz	17.2 dB
50 Hz	21.2 dB
63 Hz	28.2 dB
80 Hz	28 dB
100 Hz	25 dB
125 Hz	27 dB
160 Hz	26.9 dB
200 Hz	25.9 dB
250 Hz	28.6 dB
315 Hz	29.5 dB
400 Hz	31.8 dB
500 Hz	33.6 dB
630 Hz	34.5 dB
800 Hz	34.4 dB
1.00 kHz	33.8 dB
1.25 kHz	32.3 dB
1.60 kHz	30.3 dB
2.00 kHz	27.8 dB
2.50 kHz	26.3 dB
3.15 kHz	25 dB
4.00 kHz	24 dB
5.00 kHz	23.2 dB
6.30 kHz	21.2 dB
8.00 kHz	18.4 dB
10.00 kHz	14.7 dB
12.50 kHz	11 dB
16.00 kHz	6.8 dB
20.00 kHz	5.4 dB

Filter Summary Chart - Lavg

7: Filter Summary Chart - Lavg



Session Report

4/26/2021

Information Panel

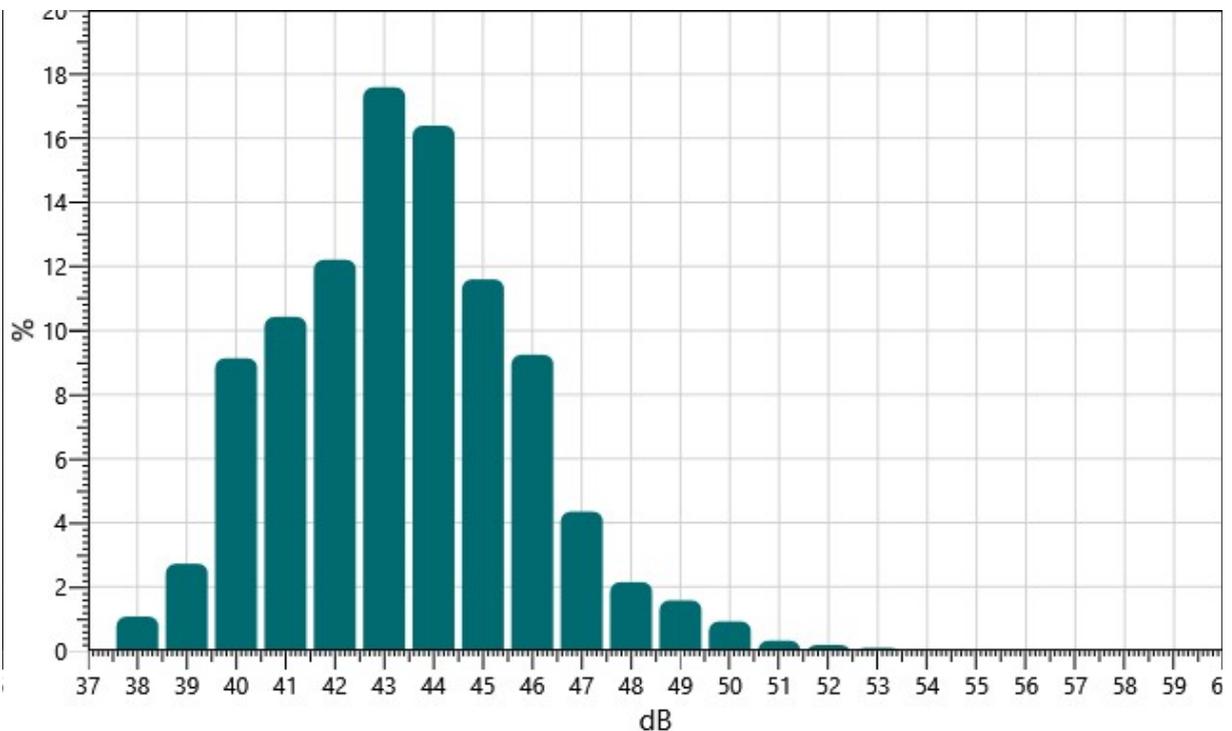
Name 8
Start Time 4/26/2021 10:11:21 AM
Stop Time 4/26/2021 10:26:26 AM
Device Name BLP090006
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	1/3
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	SLOW			

Statistics Chart

8: Statistics Chart

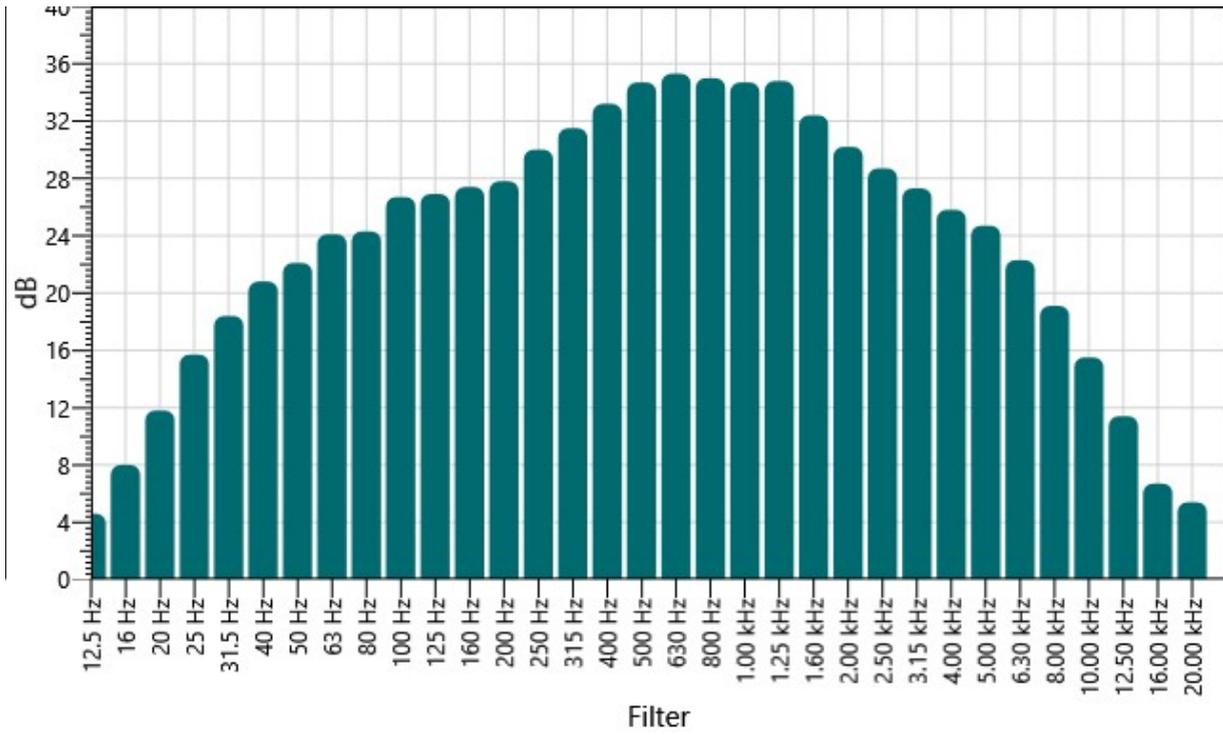


Filter Summary Table - Lavg

Filter	Lavg
12.5 Hz	4.6 dB
16 Hz	8 dB
20 Hz	11.8 dB
25 Hz	15.7 dB
31.5 Hz	18.4 dB
40 Hz	20.8 dB
50 Hz	22.1 dB
63 Hz	24.1 dB
80 Hz	24.3 dB
100 Hz	26.7 dB
125 Hz	26.9 dB
160 Hz	27.4 dB
200 Hz	27.8 dB
250 Hz	30 dB
315 Hz	31.5 dB
400 Hz	33.2 dB
500 Hz	34.7 dB
630 Hz	35.3 dB
800 Hz	35 dB
1.00 kHz	34.7 dB
1.25 kHz	34.8 dB
1.60 kHz	32.4 dB
2.00 kHz	30.2 dB
2.50 kHz	28.7 dB
3.15 kHz	27.3 dB
4.00 kHz	25.8 dB
5.00 kHz	24.7 dB
6.30 kHz	22.3 dB
8.00 kHz	19.1 dB
10.00 kHz	15.5 dB
12.50 kHz	11.4 dB
16.00 kHz	6.7 dB
20.00 kHz	5.4 dB

Filter Summary Chart - Lavg

8: Filter Summary Chart - Lavg





Certificate of Calibration

ISO 9001 Certified

Order Number: 20212124
Certificate Number 120107

Page 1

Issued To: RAECO RENTS
135 BERNICE DR
BENSENVILLE, IL 60106

Date Received: 2/1/2021

Date Issued: 2/16/2021

Valid Until: Feb 2022

Equipment: Manufacturer: QUEST
Model Number: SP-SE-1-1/3
SerialNumber: BLP090006

Test Conditions :

Temperature: 23.1 C

Humidity: 42.4 %

Barometric Pressure: 992.3 mBar

As Found: Control #
FULLY FUNCTIONAL AND IN TOLERANCE.

As Returned:
FULLY FUNCTIONAL AND WITHIN TOLERANCE.

Special Conditions:
NONE

Work Performed:
CALIBRATED PER CALIBRATION PROCEDURE SL-004.

CALIBRATED TO: ANSI S1.11-2004 ANSI 1.43 -1997 TYPE 1

MeasurementUncertainties: ACOUSTIC 1.0 DB, FREQUENCY +/- 0.1 HZ, DC VOLTAGE 0.1%, AC VOLTAGE 0.5%

Device, Description, Report Number, Date Due

Reference Standards:

1004, QUEST QE-4170, 1" PRECISION MICROPHONE, 30269-10454-1056, 8/22/2021

1010, HP 8903B, Audio Analyzer, 1257752, 6/9/2021

1024, HP 3456A, PRECISION DIGITAL VOLTMETER, 606413, 5/11/2021

1051, 1800, TYPE 1 SOUND LEVEL METER, 20212090-119889, 1/27/2022

1052, OB-100, 1:1 OCTAVE BAND FILTER, 20212090-119888, 1/27/2022

Reviewed by:

2/16/2021

Authorized Signature: Brian Stanhope

This report certifies that all calibration equipment used in the test is traceable to the National Institute of Standards (NIST) , and applies only to the unit identified under "Equipment" above. This report must not be reproduced except in it's entirety without express written approval.



Certificate of Calibration

ISO 9001 Certified

Order Number: 20212124

Certificate Number 120108

Page 1

Issued To: RAECO RENTS
135 BERNICE DR
BENSENVILLE, IL 60106

Date Received: 2/1/2021

Date Issued: 2/16/2021

Valid Until: Feb 2022

Equipment: Manufacturer: 3M
Model Number: AC-300
SerialNumber: AC300010162

Test Conditions :

Temperature: 23.1 C

Humidity: 42.4 %

Barometric Pressure: 992.3 mBar

As Found: Control #
FULLY FUNCTIONAL AND IN TOLERANCE.

As Returned:
FULLY FUNCTIONAL AND WITHIN TOLERANCE.

Special Conditions:
NONE

Work Performed:
CALIBRATED PER CALIBRATION PROCEDURE CN-005.

CALIBRATED TO: ANSI S1.40-1984

MeasurementUncertainties: ACOUSTIC +/- 0.15 DB, FREQUENCY +/- 0.1HZ, DC VOLTAGE 0.1%, AC VOLTAGE 0.5%

Device, Description, Report Number, Date Due

Reference Standards:

1004, QUEST QE-4170, 1" PRECISION MICROPHONE, 30269-10454-1056, 8/22/2021

1010, HP 8903B, Audio Analyzer, 1257752, 6/9/2021

1024, HP 3456A, PRECISION DIGITAL VOLTMETER, 606413, 5/11/2021

9108, 42AC, PISTONPHONE, HIGH PRESSURE, CLASS 1, 30864-1, 5/19/2021

Reviewed by: _____

2/16/2021

Authorized Signature: Brian Stanhope

This report certifies that all calibration equipment used in the test is traceable to the National Institute of Standards (NIST), and applies only to the unit identified under "Equipment" above. This report must not be reproduced except in it's entirety without express written approval.

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer “**Yes**” to a numbered question, please complete all the questions that follow in that section.
- If you answer “**No**” to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box “Moderate to large impact may occur.”
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the “whole action”.
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <i>If “Yes”, answer questions a - j. If “No”, move on to Section 2.</i>			
		<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

NO

YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

NO

YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)

NO

YES

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding. (See Part 1. E.2)

NO

YES

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in development within a 100 year floodplain.	E2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in development within a 500 year floodplain.	E2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	<input type="checkbox"/>	<input type="checkbox"/>
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	<input type="checkbox"/>	<input type="checkbox"/>

g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
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6. Impacts on Air			
The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO ₂) ii. More than 3.5 tons/year of nitrous oxide (N ₂ O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF ₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane	D2g D2g D2g D2g D2g D2h	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

7. Impact on Plants and Animals			
The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	<input type="checkbox"/>	<input type="checkbox"/>

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	<input type="checkbox"/>	<input type="checkbox"/>
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	<input type="checkbox"/>	<input type="checkbox"/>
j. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

8. Impact on Agricultural Resources			
The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.)		<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
<i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>			
		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>			
		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on the National or State Register of Historical Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	E3e	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	<input type="checkbox"/>	<input type="checkbox"/>

d. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
e. If any of the above (a-d) are answered “Moderate to large impact may occur”, continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	<input type="checkbox"/>	<input type="checkbox"/>
ii. The proposed action may result in the alteration of the property’s setting or integrity.	E3e, E3f, E3g, E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>

11. Impact on Open Space and Recreation			
The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) <i>If “Yes”, answer questions a - e. If “No”, go to Section 12.</i>		<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or “ecosystem services”, provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	<input type="checkbox"/>	<input type="checkbox"/>
e. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

12. Impact on Critical Environmental Areas			
The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) <i>If “Yes”, answer questions a - c. If “No”, go to Section 13.</i>		<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES	
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

13. Impact on Transportation
 The proposed action may result in a change to existing transportation systems. NO YES
 (See Part 1. D.2.j)
If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action will degrade existing transit access.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

14. Impact on Energy
 The proposed action may cause an increase in the use of any form of energy. NO YES
 (See Part 1. D.2.k)
If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	<input type="checkbox"/>	<input type="checkbox"/>
e. Other Impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

15. Impact on Noise, Odor, and Light
 The proposed action may result in an increase in noise, odors, or outdoor lighting. NO YES
 (See Part 1. D.2.m., n., and o.)
If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in routine odors for more than one hour per day.	D2o	<input checked="" type="checkbox"/>	<input type="checkbox"/>

d. The proposed action may result in light shining onto adjoining properties.	D2n	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.)
If "Yes", answer questions a - m. If "No", go to Section 17.

NO

YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	<input type="checkbox"/>	<input type="checkbox"/>
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	<input type="checkbox"/>	<input type="checkbox"/>
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	<input type="checkbox"/>	<input type="checkbox"/>
m. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans.
 (See Part 1. C.1, C.2. and C.3.)
 If "Yes", answer questions a - h. If "No", go to Section 18.

NO

YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	<input type="checkbox"/>	<input type="checkbox"/>
h. Other: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character.
 (See Part 1. C.2, C.3, D.2, E.3)
 If "Yes", answer questions a - g. If "No", proceed to Part 3.

NO

YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

**Full Environmental Assessment Form
Part 1 - Project and Setting**

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City Council, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
i. Coastal Resources. <ul style="list-style-type: none"> <li data-bbox="121 829 1485 861">i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No <li data-bbox="121 892 1485 924">ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No <li data-bbox="121 924 1485 955">iii. Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No 		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will proposed action cause or result in disturbance to bottom sediments? Yes No

If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

 iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

 • If to surface waters, identify receiving water bodies or wetlands: _____

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflouorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p><i>i.</i> During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p><i>ii.</i> During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
---	--

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
 If yes:
 i. Provide details including sources, time of day and duration:

ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n.. Will the proposed action have outdoor lighting? Yes No
 If yes:
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
 If Yes:
 i. Product(s) to be stored _____
 ii. Volume(s) _____ per unit time _____ (e.g., month, year)
 iii. Generally describe proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
 If Yes:
 i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
 If Yes:
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:
 • Construction: _____ tons per _____ (unit of time)
 • Operation : _____ tons per _____ (unit of time)
 ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: _____

 • Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:
 • Construction: _____

 • Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____%

c. Predominant soil type(s) present on project site: _____ %
 _____ %
 _____ %

d. What is the average depth to the water table on the project site? Average: _____ feet

e. Drainage status of project site soils: Well Drained: _____ % of site
 Moderately Well Drained: _____ % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ % of site
 10-15%: _____ % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
 If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name _____ Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
 If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100 year Floodplain? Yes No

k. Is the project site in the 500 year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
 If Yes:
 i. Name of aquifer: _____

m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____	
n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District	
<i>ii.</i> Name: _____	
<i>iii.</i> Brief description of attributes on which listing is based: _____	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input type="checkbox"/> Yes <input type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	
If Yes:	
<i>i.</i> Describe possible resource(s): _____	
<i>ii.</i> Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Identify resource: _____	
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____	
<i>iii.</i> Distance between project and resource: _____ miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Identify the name of the river and its designation: _____	
<i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

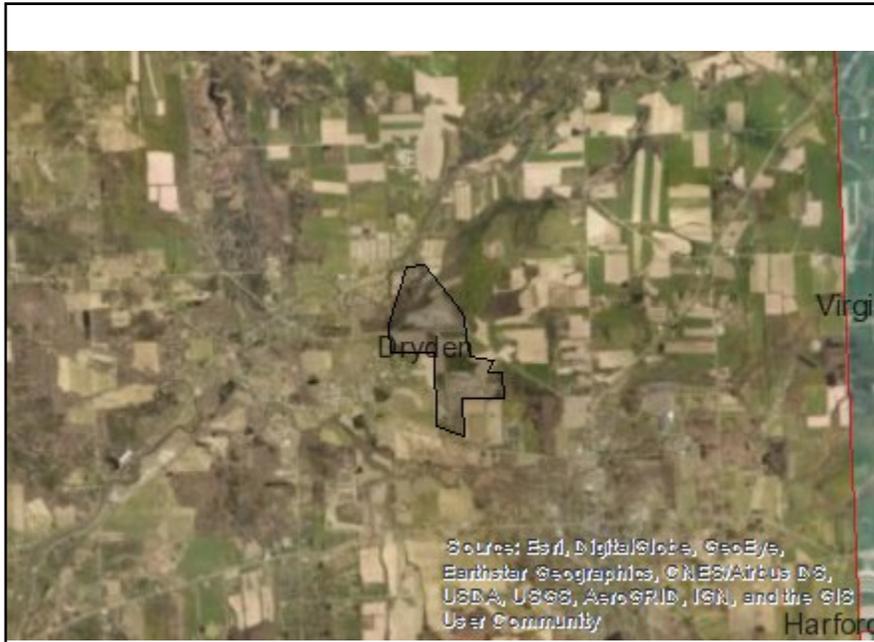
If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date _____

Signature _____ Title _____



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	898-266
E.2.h.iv [Surface Water Features - Stream Classification]	C(T)
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters, NYS Wetland
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):240.2
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	GR-14
E.2.h.v [Impaired Water Bodies]	No

E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	Yes
E.2.n.i [Natural Communities - Name]	Rich Hemlock-Hardwood Peat Swamp
E.2.n.i [Natural Communities - Acres]	8.0
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	Yes
E.3.a. [Agricultural District]	TOMP001
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National Register of Historic Places]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No