

Letters of Opposition

SB 1

Peering through the mist: What does the chemistry of contaminants in electronic cigarettes tell us about health risks?

Igor Burstyn, PhD

Department of Environmental and Occupational Health

School of Public Health

Drexel University

1505 Race St., Mail Stop #1034

Philadelphia, PA 19102

USA

Tel: 215.762.2909 | Fax: 215.762.8846

igor.burstyn@drexel.edu

Abstract

The aim of this paper is to review available data on chemistry of aerosols and liquids of electronic cigarettes and to make predictions about compliance with occupational exposure limits of personal exposures of vapers (e-cigarette users) to compounds found in the aerosol. Both peer-reviewed and "grey" literatures were accessed and more than 9000 observations of highly variable quality were extracted. Comparisons to the most universally recognized workplace exposure standards, Threshold Limit Values (TLVs), were conducted under "worst case" assumptions about both chemical content of aerosol and liquids as well as behavior of vapers. The calculations reveal that there was no evidence of potential for exposures of e-cigarette users to contaminants that are associated with risk to health at a level that would warrant attention if it were an involuntary workplace exposures by approaching half of TLV. The vast majority of predicted exposures are <<1% of TLV. Predicted exposures to acrolein and formaldehyde are typically <5% TLV. Considering exposure to the aerosol as a mixture of contaminants did not indicate that exceeding half of TLV for mixtures was plausible. Only exposures to the declared major ingredients -- propylene glycol and glycerin -- warrant attention because of precautionary nature of TLVs for exposures to hydrocarbons with no established toxicity. Comparing the exposure to nicotine to existing occupational exposure standards is not valid so long as nicotine-containing liquid is not mislabeled as nicotine-free. It must be noted that the quality of much of the data that was available for these assessment was poor, and so much can be done to improve certainty in this risk assessment. However, the existing research is of the quality that is comparable with most workplace assessments for novel technologies. In summary, an analysis of current state of knowledge about chemistry of liquids and aerosols associated with electronic cigarettes indicates that there is no evidence that vaping produces inhalable exposures to *contaminants* of the aerosol that would warrant health concerns by the standards that are used to ensure safety of workplaces. However, the aerosol generated during vaping as a whole (*contaminants plus declared ingredients*), if it were an emission from industrial process, creates personal exposures that would justify surveillance of health among exposed persons in conjunction with investigation of means to keep health effects as low as reasonably achievable. Exposures of bystanders are likely to be orders of magnitude less, and thus pose no apparent concern.

Keywords: vaping, e-cigarettes, tobacco harm reduction, risk assessment, aerosol, occupational exposure limit

Introduction

Electronic cigarettes (also known as e-cigarettes) are generally recognized as a safer alternative to combusted tobacco products (reviewed in [1]), but there are conflicting claims about the degree to which these products warrant concern for the health of the vapers (e-cigarette users). A vaper inhales aerosol generated during heating of liquid contained in the e-cigarette. The technology and patterns of use are summarized by Etter [1], though there is doubt about how current, complete and accurate this information is. Rather conclusive evidence has been amassed to date on comparison of the chemistry of aerosol generated by electronic cigarettes to cigarette smoke [2-8]. However, it is meaningful to consider the question of whether aerosol generated by electronic cigarettes would warrant health concerns on its own, in part because vapers will include persons who would not have been smokers and for whom the question of harm reduction from smoking is therefore not relevant, and perhaps more importantly, simply because there is value in minimizing the harm of those practicing harm reduction.

One way of approaching risk evaluation in this setting is to rely on the practice, common in occupational hygiene, of relating the chemistry of industrial processes and the emissions they generate to the potential worst case of personal exposure and then drawing conclusions about whether there would be interventions in an occupational setting based on comparison to occupational exposure limits, which are designed to ensure safety of unintentionally exposed individuals. In that context, exposed individuals are assumed to be adults, and this assumption appears to be suitable for the intended consumers of electronic cigarettes. "Worst case" refers to the maximum personal exposure that can be achieved given what is known about the process that generates contaminated atmosphere (in the context of airborne exposure considered here) and the pattern of interaction with the contaminated atmosphere. It must be noted that harm reduction notions are embedded in this approach since it recognizes that while elimination of the exposure may be both impossible and undesirable, there nonetheless exists a level of exposure that is associated with negligible risks. To date, a comprehensive review of the chemistry of electronic cigarettes and the aerosols they generate has not been conducted, depriving the public of the important element of a risk-assessment process that is mandatory for environmental and occupational health policy making.

The present work considers both the contaminants present in liquids and aerosols as well as the declared ingredients in the liquids. The distinction between exposure to declared ingredients and contaminants of a consumer product is important in the context of comparison to occupational or environmental exposure standards. Occupational exposure limits are developed for unintentional exposures that a person does not elect to experience. For example, being a bread baker is a choice that does not involve election to be exposed to substances that cause asthma that are part of the flour dust (most commonly, wheat antigens and fungal enzymes). Therefore, suitable occupational exposure limits are created to attempt to protect individuals from such risk on the job, with no presumption of "assumed risk" inherent in the occupation. Likewise, special regulations are in effect to protect persons from unintentional exposure to nicotine in workplaces (<http://www.cdc.gov/niosh/docs/81-123/pdfs/0446.pdf>; accessed July 12, 2013), because in environments where such exposures are possible, it is reasonable to protect individuals who do not wish to experience its effects. In other words, occupational exposure limits are based on protecting people from involuntary and unwanted exposures, and thus can be seen as appropriately more stringent than the standards that might be used for hazards that people intentionally choose to accept.

By contrast, a person who elects to lawfully consume a substance is subject to different risk tolerance, as is demonstrated in the case of nicotine by the fact that legally sold cigarettes deliver doses of nicotine that exceed occupational exposure limits[9]: daily intake of 20 mg of nicotine, assuming nearly 100% absorption in the lungs and

inhalation of 4 m³ of air, corresponds to roughly 10 times the occupational exposure limit of 0.5 mg/m³ atmosphere over hours[10]. Thus, whereas there is a clear case for applicability of occupational exposure limits to contaminants in a consumer product (e.g. aerosol of electronic cigarettes), there is no corresponding case for applying occupational exposure limits to declared ingredients desired by the consumer in a lawful product (e.g. nicotine in the aerosol of an electronic cigarette). Clearly, some limits must be set for voluntary exposure to compounds that are known to be a danger at plausible doses (e.g. limits on blood alcohol level while driving), but the regulatory framework should reflect whether the dosage is intentionally determined and whether the risk is assumed by the consumer. In the case of nicotine in electronic cigarettes, if the main reason the products are consumed is as an alternative source of nicotine compared to smoking, then the only relevant question is whether undesirable exposures that accompany nicotine present health risks, and the analogy with occupational exposures holds. In such cases it appears permissible to allow at least as much exposure to nicotine as from smoking before admitting to existence of new risk. It is expected that nicotine dosage will not increase in switching from smoking to electronic cigarettes because there is good evidence that consumers adjust consumption to obtain their desired or usual dose of nicotine[11]. The situation is different for the vapers who want to use electronic cigarettes without nicotine and who would otherwise not have consumed nicotine. For these individuals, it is defensible to consider total exposure, including that from any nicotine contamination, in comparison to occupational exposure limits. In consideration of vapers who would never have smoked or would have quit entirely, it must be remembered that the exposure is still voluntary and intentional, and comparison to occupational exposure limits is legitimate only for those compounds that the consumer does not elect to inhale.

The specific aims of this review were to:

1. Synthesize evidence on the chemistry of liquids and aerosols of electronic cigarettes, with particular emphasis on the contaminants.
2. Evaluate the quality of research on the chemistry of liquids and aerosols produced by electronic cigarettes.
3. Estimate potential exposures from aerosols produced by electronic cigarettes and compare those potential exposures to occupational exposure standards.

Methods

Literature search

Articles published in peer-reviewed journals were retrieved from *PubMed* (<http://www.ncbi.nlm.nih.gov/pubmed/>) using combinations of the following keywords: "electronic cigarettes", "e-cigarettes", "smoking alternatives", "chemicals", "risks", "electronic cigarette vapor", "aerosol", "ingredients", "e-cigarette liquid", "e-cig composition", "e-cig chemicals", "e-cig chemical composition", "e-juice electronic cigarette", "electronic cigarette gas", "electronic cigars". In addition, references of the retrieved articles were examined to identify further relevant articles, with particular attention paid to non-peer reviewed reports and conference presentations. Unpublished results obtained through personal communications were also reviewed. The Consumer Advocates for Smoke-free Alternatives Association (CASAA) was asked to review the retrieved bibliography to identify any reports or articles that were missed. The papers and reports were retained for analysis if they reported on the chemistry of e-cigarette liquids or aerosols. No explicit quality control criteria were applied in selection of literature for examination, except that secondary reporting of analytical results was not used. Where substantial methodological problems that precluded interpretation of analytical results were noted, these are described below. For each article that contained relevant analytical results, the compounds quantified, limits of detection, and analytical results were summarized in a spreadsheet. Wherever possible, individual analytical results (rather than averages) were recorded (see electronic Appendix A:

<https://dl.dropboxusercontent.com/u/4285761/CASAA/eAppendixA.xlsx>). Data contained in **Appendix A** is not fully summarized in the current report but can be used to investigate a variety of specific questions that may interest the reader. Each entry in **Appendix A** is identified by a *Reference Manage ID* that is linked to source materials in a list in **Appendix B** (linked via *RefID*: <https://dl.dropboxusercontent.com/u/4285761/CASAA/AppendixB.rtf>) and attached electronic copies of all original materials (**Bibliography.zip**: <https://dl.dropboxusercontent.com/u/4285761/CASAA/bibliography.zip>).

Comparison of observed concentrations in aerosol to occupational exposure limits

For articles that reported mass or concentration of specific compounds in the aerosol (generated by smoking machines or from volunteer vapers), measurements of compounds were converted to concentrations in the “personal breathing zone”,^a which can be compared to occupational exposure limits (OELs). The 2013 Threshold Limit Values (TLVs)[10] were used as OELs because they are the most up to date and are most widely recognized internationally when local jurisdictions do not establish their own regulations (see <http://www.ilo.org/oshenc/part-iv/occupational-hygiene/item/575>; accessed July 3, 2013). Whenever there was an uncertainty in how to perform the calculation, a “worst case” scenario was used, as is the standard practice in occupational hygiene, where the initial aim is to recognize potential for hazardous exposures and to err on the side of caution. The following assumptions were made to enable the calculations that approximate the worst-case personal exposure of a vaper (Equation 1):

1. Air the vaper breathes consists of a small volume of aerosol generated by e-cigarettes that contains a specific chemical plus pristine air;
2. The volume of aerosols inhaled from e-cigarettes is negligible compared to total volume of air inhaled;
3. The period of exposure to the aerosol considered was normalized to 8 hours, for comparability to the standard working shift for which TLVs were developed (this does not mean only 8 hours worth of vaping was considered (see point 4) but rather that amount of breathing used to dilute the day’s worth of vaping exposure was 8 hours);
4. Consumption of 150 puffs in 8 hours (an upper estimate based on a rough estimate of 150 puffs by a typical vaper in a day[1]) was assumed to be conservative;
5. Breathing rate is 8 liters per minute [12,13];
6. Each puff contains the same quantity of compounds studied.

$$[\text{mg}/\text{m}^3] = \text{mg}/\text{puff} \times \text{puffs}/(8 \text{ hr day}) \times 1/(\text{m}^3 \text{ air inhaled in 8 hr}) \quad \text{Eq. 1}$$

The only exception to this methodology was when assessing a study of aerosol emitted by 5 vapers in a 60 m³ room over 5 hours that seemed to be a sufficient approximation of worst-case “bystander” exposure[6]. All calculated concentrations were expressed as the most stringent (lowest) TLV for a specific compound (i.e. assuming the most toxic form if analytical report is ambiguous) and expressed as “percent of TLV”. Considering that all the above calculations are approximate and reflecting that exposures in occupational and general environment can easily vary by a factor of 10 around the mean, we added a 10-fold safety factor to the “percent of TLV” calculation. Details of all calculations are provided in an Excel spreadsheet (see electronic **Appendix C**: <https://dl.dropboxusercontent.com/u/4285761/CASAA/eAppendixC.xlsx>).

No systematic attempt was made to convert the content of the studied liquids into potential exposures because sufficient information was available on the chemistry of aerosols to use those studies rather than making the necessary

^a Atmosphere that contains air inhaled by a person

simplifying assumptions to do the conversion. However, where such calculations were performed in the original research, the following approach was used: under the (probably false – see the literature on formation of carbonyl compounds below) assumption of no chemical reaction to generate novel ingredients, composition of liquids can be used to estimate potential for exposure if it can be established how much volume of liquid is consumed in given 8 hours, following an algorithm analogous to the one described above for the aerosols (Equation 2):

$$[\text{mg}/\text{m}^3] = \text{mg}/(\text{mL liquid}) \times (\text{mL liquid})/\text{puff} \times \text{puffs}/(8 \text{ hr day}) \times 1/(\text{m}^3 \text{ air inhaled in 8 hr}) \quad \text{Eq. 2}$$

Comparison to cigarette smoke was not performed here because the fact that e-cigarette aerosol is at least orders of magnitude less contaminated by toxic compounds is uncontroversial [2-8].

Results and discussion

General comments on methods

In excess of 9,000 determinations of single chemicals (and rarely, mixtures) were reported in reviewed articles and reports, typically with multiple compounds per electronic cigarette tested [2-8,14-42]. Although the quality of reports is highly variable, if one assumes that each report contains some information, this asserts that quite a bit is known about composition of e-cigarette liquids and aerosols. The only report that was excluded from consideration was work of McAuley et al.[23] because of clear evidence of cross-contamination – admitted to by the authors – with cigarette smoke and, possibly, reagents. The results pertaining to non-detection of tobacco-specific nitrosamines (TSNAs) are potentially trustworthy, but those related to PAH are not since it is incredible that cigarette smoke would contain fewer polycyclic aromatic hydrocarbons (PAH; arising in incomplete combustion of organic matter) than aerosol of e-cigarettes that do not burn organic matter [23]. In fairness to the authors of that study, similar problems may have occurred in other studies but were simply not reported, but it is impossible to include a paper in a review once it is known for certain that its quantitative results are not trustworthy. When in doubt, we erred on the side of trusting that proper quality controls were in place, a practice that is likely to increase appearance of atypical or erroneous results in this review. From this perspective, assessment of concordance among independent reports gains higher importance than usual since it is unlikely that two experiments would be flawed in the same exact manner (though of course this cannot be assured).

It was judged that the simplest form of publication bias – disappearance of an entire formal study from the available literature – was unlikely given the exhaustive search strategy and the contested nature of the research question. It is clearly the case that only a portion of all industry technical reports were available for public access, so it is possible that those with more problematic results were systematically suppressed, though there is no evidence to support this speculation. No formal attempt was made to ascertain publication bias *in situ* though it is apparent that anomalous results do gain prominence in typical reviews of the literature: diethylene glycol[43,44] detected at non-dangerous levels (see details below) in one test of 18 of early-technology products by FDA[22] and one outlier in measurement of formaldehyde content of exhaled air [4] and aldehydes in aerosol generated from one e-cigarette in Japan [37]. It must be emphasized that the alarmist report of aldehydes in experiments presented in [37] is based on the concentration in generated aerosol rather than air inhaled by the vaper over prolonged period of time (since vapers do not inhale only aerosol). Thus, results reported in [37] cannot be the basis of any claims about health risk, a fallacy committed both by the authors themselves and commentators on this work [44].

It was also unclear from [37] what the volume of aerosol sampled was – a critical item for extrapolating to personal exposure and a common point of ambiguity in the published reports. However, in a personal exchange with the authors of [37][July 11, 2013], it was clarified that the sampling pump drew air at 500 mL/min through e-cigarette for 10 min, allowing more appropriate calculations for estimation of health risk that are presented below. Such misleading reporting is common in the field that confuses concentration in the aerosol (typically measured directly) with concentration in the air inhaled by the vaper (never determined directly and currently requiring additional assumptions and modeling). This is important because the volume of aerosol inhaled (maximum ~8 L/day) is negligible compared to the volume of air inhaled daily (8L/min); this point is illustrated in the Figure.

A similar but more extreme consideration applies to the exposure of bystanders which is almost certainly several orders of magnitude lower than the exposure of vapers. In part this is due to the absorption, rather than exhalation, of a portion of the aerosol by the vapers: there is no equivalent to the "side-stream" component of exposure to conventional cigarettes, so all of the exposure to bystanders results from exhalation. Furthermore, any environmental contamination that results from exhalation of aerosol by vaper will be diluted into the air prior to entering a bystander's personal breathing zone. Lastly, the number of puffs that affects exposure to bystander is likely to be much smaller than that of a vaper unless we are to assume that vaper and bystander are inseparable.

It is unhelpful to report results in cigarette-equivalents, as in [42], because this does not enable one to estimate exposures of vapers. Moreover, there is no value in comparison of the content of e-cigarette aerosol to cigarette smoke when the two products produce emissions that are orders of magnitude apart. To be useful for risk assessment, the results on the chemistry of the aerosols and liquids must be reported in a form that enables the calculations in Equations 1 and 2. It must be also be noted that typical investigations consisted of qualitative and quantitative phases such that quantitative data is available mostly on compounds that passed the qualitative screen. This biased all reports on concentration of compounds towards both higher levels and chemicals which a particular lab was most adept at analyzing.

Declared Ingredients: comparison to occupational exposure limits

Propylene glycol and glycerin have default or precautionary TLV of 10 mg/m³ over 8 hours set for all organic mists with no specific exposure limits or identified toxicity (http://www.osha.gov/dts/chemicalsampling/data/CH_243600.html; accessed July 5, 2013). These interim TLVs tend to err on the side of being too high and are typically lowered if evidence of harm to health accumulates. For example, in a study that related exposure of theatrical fogs (containing propylene glycol) to respiratory symptoms [45], "mean personal inhalable aerosol concentrations were 0.70 mg/m³ (range 0.02 to 4.1)" [46]. The only available estimate of propylene concentration of propylene glycol in the aerosol indicates personal exposure on the order of 3-4 mg/m³ in the personal breathing zone over 8 hours (under the assumptions we made for all other comparisons to TLVs) [2]. The latest (2006) review of risks of occupational exposure to propylene glycol performed by the Health Council of the Netherlands (known for OELs that are the most protective that evidence supports and based exclusively on scientific considerations rather than also accounting for feasibility as is the case for the TLVs) recommended exposure limit of 50 mg/m³ over 8 hours; concern over short-term respiratory effects was noted [<http://www.gezondheidsraad.nl/sites/default/files/200702OSH.pdf>; accessed July 29, 2013]. Assuming extreme consumption of the liquid per day via vaping (5 to 25 ml/day and 50-95% propylene glycol in the liquid)^b, levels of propylene glycol in inhaled air can reach 1-6 mg/m³. It has been suggested that propylene glycol is

^bThis estimate of consumption was derived from informal reports from vaping community; 5 ml/day was identified as a high but not rare quantity of consumption and 25 ml/day was the high end of claimed use, though some skepticism was expressed about

very rapidly absorbed during inhalation [4,6] making the calculation under worst case scenario of all propylene glycol becoming available for inhalation credible. It must also be noted that when consuming low-nicotine or nicotine-free liquids, the chance to consume larger volumes of liquid increases (large volumes are needed to reach the target dose or there is no nicotine feedback), leading to the upper end of propylene glycol and glycerin exposure. Thus, estimated levels of exposure to propylene glycol and glycerin are close enough to TLV to warrant concern.

Nicotine is present in most liquids and has TLV of 0.5 mg/m^3 for average exposure intensity over 8 hours. If approximately 4 m^3 of air is inhaled in 8 hours, the consumption of 2 mg nicotine from e-cigarettes in 8 hours would place the vaper at the occupational exposure limit. For a liquid that contains 18 mg nicotine/ml, TLV would be reached upon vaping ~0.1-0.2 ml of liquid in a day, and so is achieved for most anyone vaping nicotine-containing e-cigarettes[1]. Results presented in [24] on 16 e-cigarettes also argue in favor of exceedance of TLV from most any nicotine-containing e-cigarette, as they predict >2mg of nicotine released to aerosol in 150 puffs (daily consumption figure adopted in this report). But as noted above, since delivery of nicotine is the purpose of nicotine-containing e-cigarettes, the comparison to limits on unintended, unwanted exposures does not suggest a problem and serves merely to offer complete context. If nicotine is present but the liquid is labeled as zero-nicotine [24,43], it could be treated as a contaminant, with the vaper not intending to consume nicotine and the TLV, which would be most likely exceeded, is relevant. However, when nicotine content is disclosed, even if inaccurately, then comparison to TLV is not valid. Accuracy in nicotine content is a concern with respect to truth in advertising rather than unintentional exposure, due to self-regulation of consumption by persons who use e-cigarettes as a source of nicotine.

Overall, the declared ingredients in the liquid would warrant a concern by standards used in occupational hygiene, provided that comparison to occupational exposure limits is valid, as discussed in the introduction. However, this is not to say that the exposure is affirmatively believed to be harmful; as noted, the TLVs for propylene glycol and glycerin mists is based on uncertainty rather than knowledge. These TLVs are not derived from knowledge of toxicity of propylene glycol and glycerin mists, but merely apply to any compound of no known toxicity present in workplace atmosphere. This aspect of the exposure from e-cigarettes simply has little precedent (but see study of theatrical fogs below). Therefore, the exposure will provide the first substantial collection evidence about the effects, which calls for monitoring of both exposure levels and outcomes, even though there are currently no grounds to be concerned about the immediate or chronic health effects of the exposure. The argument about nicotine is presented here for the sake of completeness and consistency of comparison to TLVs, but in itself does not affect the conclusions of this analysis because it should not be modeled as if it were a contaminant when declared as an ingredient in the liquid.

Polycyclic Aromatic Hydrocarbons

Polycyclic aromatic hydrocarbons (PAH) were quantified in several reports in aerosols [5,6,42] and liquids [7,18,41]. These compounds include well-known carcinogens, the levels of which are not subject to TLV but are instead to be kept "as low as reasonably achievable" (the so called ALARA principle)[10]. For PAH, only non-carcinogenic pyrene that is abundant in the general environment was detected at 36 ng/cartridge in 5 samples of liquid [7]; PAHs were not detected in most of the analyses of aerosols, except for chrysene in the analysis of the aerosol of one e-cigarette[42].

Tobacco-Specific Nitrosamines

Whether the latter quantity was truly possible. High-quality formal studies to verify these figures do not yet exist but they are consistent with report of Etter (2012).

The same risk assessment considerations that exist for PAH also hold for carcinogenic tobacco-specific nitrosamines (TSNAs)[47] for which no occupational exposure limits exist because (a) these exposures do not appear to occur in occupational settings often enough to warrant development of TLVs, and (b) it is currently accepted in establishing TLVs that carcinogens do not have minimal thresholds of toxicity. As expected because the TSNAs are contaminants of nicotine from tobacco leaf, there is also evidence of association between nicotine content of the liquid and TSNA concentrations, with reported concentrations <5 ng/cartridge tested [7]. Smaller studies of TSNA content in liquids are variable, with some not reporting any detectable levels [17,32,34] and others clearly identifying these compounds in the liquids when controlling for background contamination (n=9)[22]. Analyses of aerosols indicate that TSNAs are present in amounts that can result in doses of <ng/day[5,32] to µg/day [8] (assuming 150 puffs/day) (see also [42]). The most comprehensive survey of TSNA content of 105 samples of liquids from 11 manufactures indicates that almost all tested liquids (>90%) contained TSNAs in µg/L quantities [35]. This is roughly equivalent to 1/1000 of the concentration of TSNAs in modern smokeless tobacco products (like snus), which are in the ppm range [47]. The TSNA concentration of the liquids is orders of magnitude less than smokeless tobacco products, though the actual dosage from e-cigarettes vs. smokeless tobacco remains to be clearly understood. For example, 10 µg/L (0.01 ppm) of total TSNA in liquid[35] can translate to a daily dose of 0.000025-0.00005 µg from vaping (worst case assumption of 5 ml/day); if 15 g of snus is consumed a day [48] with 1 ppm of TSNAs [47] and half of it were absorbed, then the daily dose is estimated to be 0.008 µg, which is 160-320 times that due to the worst case of exposure from vaping. Various assumptions about absorption of TSNAs alter the result of this calculation by a factor that is dwarfed in magnitude compared to that arising from differences considered above. This is reassuring because smokeless tobacco products, such as snus, pose negligible cancer risk[49], certainly orders of magnitude smaller than smoking (if one considers the chemistry of the products alone). In general, it appears that the cautious approach in face of variability and paucity of data is to seek better understanding of predictors of presence of TSNA in liquids and aerosols so that measures for minimizing exposure to TSNAs from aerosols can be devised. This can include considering better control by manufactures of the nicotine.

Volatile Organic Compounds

Total volatile organic compounds (VOC) were determined in aerosol to be non-detectable[3] except in one sample that appeared to barely exceed the background concentration of 1 mg/m³ by 0.73 mg/m³[6]. These results are corroborated by analyses of liquids[18] and most likely testify to insensitivity of employed analytic methods for total VOC for characterizing aerosol generated by e-cigarettes, because there is ample evidence that specific VOC are present in the liquids and aerosols.^c Information on specific commonly detected VOC in the aerosol is given in **Table 1a**. It must be observed that these reported concentrations are for analyses that first observed qualitative evidence of the presence of a given VOC and thus represent worst case scenarios of exposure when VOC is present (i.e. zero exposures are missing from the overall summary of worst case exposures presented here). For most VOC and aldehydes, one can predict the concentration in air inhaled by a vaper to be <<1% of TLV. The only exceptions to this generalization are:

- (a) acrolein: ~1% of TLV (average of 12 measurements) and measurements at a mean of 2% of TLV (average of 150 measurements)[39,40] and
- (b) formaldehyde: between 0 and 3% of TLV based on 18 tests (average of 12 measurements at 2% of TLV, the most reliable test) and an average of 150 results at 4% of TLV [39,40].

^cThe term "VOC" loosely groups together all organic compounds present in aerosol and because the declared ingredients of aerosol are organic compounds, it follows that "VOC are present"

Levels of acrolein in exhaled aerosol reported in [6] were below 0.0016 mg/m^3 and correspond to predicted exposure of 1% of TLV (Table 2). It must be re-emphasized that all calculations based on one electronic cigarette analyzed in [37] are best treated as qualitative in nature (i.e. indicating presence of a compound without any particular meaning attached to the reported level with respect to typical levels) due to great uncertainty about whether the manner in which the e-cigarette was operated could have resulted in overheating that led to generation of acrolein in the aerosol. In fact, a presentation made by the author of [37] clearly stated that the "atomizer, generating high concentration carbonyls, had been burned black" [39,40]. In unpublished work, [39] there are individual values of formaldehyde, acrolein and glyoxal that approach TLV, but it is uncertain how typical these are because there is reason to believe the liquid was overheated; considerable variability among brands of electronic cigarettes was also noted. Formaldehyde and other aldehydes, but not acrolein, were detected in the analysis of one e-cigarette [42]. The overwhelming majority of the exposure to specific VOC that are predicted to result from inhalation of the aerosols lie far below action level of 50% of TLV at which exposure has to be mitigated according to current code of best practice in occupational hygiene [50].

Finding of an unusually high level of formaldehyde by Schripp *et al.* [4] – 0.5 ppm predicted vs. 15-minute TLV of 0.3 ppm (not given in Table 2) – is clearly attributable to endogenous production of formaldehyde by the volunteer smoker who was consuming e-cigarettes in the experimental chamber, since there was evidence of build-up of formaldehyde prior to vaping and liquids used in the experiments did not generate aerosol with detectable formaldehyde. This places generalizability of other findings from [4] in doubt, especially given that the only other study of exhaled air by vapers who were not current smokers reports much lower concentrations for the same compounds [6] (Table 2). It should be noted that the report by Romagna *et al.* [6] employed more robust methodology, using 5 volunteer vapers (no smokers) over an extended period of time. Except for benzene, acetic acid and isoprene, all calculated concentrations for detected VOC were much below 1% of TLV in exhaled air [6]. In summary, these results do not indicate that VOC generated by vaping are of concern by standards used in occupational hygiene.

Diethylene glycol and ethylene glycol became a concern following the report of their detection by FDA [43], but these compounds are not detected in the majority of tests performed to date [3,14,16,18,22]. Ten batches of the liquid tested by their manufacture did not report any diethylene glycol above 0.05% of the liquid [41]. Methods used to detect diethylene glycol appear to be adequate to be informative and capable of detecting the compound in quantities $\ll 1\%$ of TLV [14,16,22]. Comparison to TLV is based on a worst case calculation analogous to the one performed for propylene glycol. For diethylene glycol, TLV of 10 mg/m^3 is applicable (as in the case of all aerosols with no known toxicity by inhalation), and there is a recent review of regulations of this compound conducted for the Dutch government by the Health Council of the Netherlands (jurisdiction with some of the most strict occupational exposure limits) that recommended OEL of 70 mg/m^3 and noted lack of evidence for toxicity following inhalation [<http://www.gezondheidsraad.nl/sites/default/files/200703OSH.pdf>; accessed July 29; 2013]. In conclusion, even the quantities detected in the single FDA result were of little concern, amounting to less than 1% of TLV.

Inorganic compounds

Special attention has to be paid to the chemical form of compounds when there is detection of metals and other elements by inductively coupled plasma mass spectrometry (ICP-MS) [8,25]. Because the parent molecule that occurs in the aerosol is destroyed in such analysis, the results can be alarmist and not interpretable for risk assessment. For example, the presence of sodium ($4.18 \text{ } \mu\text{g}/10 \text{ puffs}$) [25] does not mean that highly reactive and toxic sodium metal is in the aerosol, which would be impossible given its reactivity, but most likely means the presence of the ubiquitous compound that contains sodium, dissolved table salt (NaCl). If so, the corresponding daily dose of NaCl that arises from

these concentrations from 150 puffs is about 10,000 times lower than allowable daily intake according to CDC (<http://www.cdc.gov/features/dssodium/>; accessed July 4, 2013). Likewise, a result for presence of silica is meaningless for health assessment unless the crystalline form of SiO_2 is known to be present. When such ambiguity exists, a TLV equivalence calculation was not performed. We compared concentrations to TLVs when it was even remotely plausible that parent molecules were present in the aqueous solution. However, even these are to be given credence only in an extremely pessimistic analyst, and further investigation by more appropriate analytical methods could clarify exactly what compounds are present, but is not a priority for risk assessment. It should also be noted that one study that attempted to quantify metals in the liquid found none above 0.1-0.2 ppm levels [7] or above unspecified threshold [18]. **Table 1b** indicates that most metals that were detected were present at <1% of TLV even if we assume that the analytical results imply the presence of the most hazardous molecules containing these elements that can occur in aqueous solution. For example, when elemental chromium was measured, it is compared to TLV for insoluble chromium IV that has the lowest TLV of all chromium compounds. Analyses of metals given in [42] are not summarized here because of difficulty with translating reported units into meaningful terms for comparison with the TLV, but only mercury (again with no information on parent organic compound) was detected in trace quantities, but arsenic, beryllium, chromium, cadmium, lead and nickel were not. Taken as the whole, it can be inferred that there is no evidence of contamination of the aerosol with metals that warrants a health concern.

Consideration of exposure to a mixture of contaminants

All calculations conducted so far assumed only one contaminant present in clean air at a time. What are the implications of small quantities of various compounds with different toxicities entering the personal breathing zone at the same time? For evaluation of compliance with exposure limits for mixtures, Equation 3 is used:

$$\text{OEL}_{\text{mixture}} = \sum_{i=1}^n (C_i / \text{TLV}_i), \quad \text{Eq. 3}$$

where C_i is the concentration of the i^{th} compound ($i=1, \dots, n$, where $n>1$ is the number of ingredients present in a mixture) in the contaminated air and TLV_i is the TLV for the i^{th} compound in the contaminated air; if $\text{OEL}_{\text{mixture}} > 1$, then there is evidence of the mixture exceeding TLV.

The examined reports detected no more than 5-10 compounds in the aerosol, and the above calculation does not place any of them out of compliance with TLV for mixture. Let us imagine that 50 compounds with TLVs were detected. Given that the aerosol tends to contain various compounds at levels, on average, of no more than 0.5% of TLV (**Table 1**), such a mixture with 50 ingredients would be at 25% of TLV, a level that is below that which warrants a concern, since the "action level" for implementation of controls is traditionally set at 50% of TLV to ensure that the majority of persons exposed have personal exposure below mandated limit [50]. Pellerino et al.[2] reached conclusions similar to this review based on their single experiment: contaminants in the liquids that warrant health concerns were present in concentrations that were less than 0.1% of that allowed by law in the European Union. Of course, if the levels of the declared ingredients (propylene glycol, glycerin, and nicotine) are considered, the action level would be met, since those ingredients are present in the concentrations that are near the action level. There are no known synergistic actions of the examined mixtures, so Equation 3 is therefore applicable. Moreover, there is currently no reason to suspect that the trace amounts of the contaminants will react to create compounds that would be of concern.

Conclusions

By the standards of occupational hygiene, current data do not indicate that exposures to vapors from contaminants in electronic cigarettes warrant a concern. There are no known toxicological synergies among compounds in the aerosol, and mixture of the contaminants does not pose a risk to health. However, exposure of vapers to propylene glycol and glycerin reaches the levels at which, if one were considering the exposure in connection with a workplace setting, it would be prudent to scrutinize the health of exposed individuals and examine how exposures could be reduced. This is the basis for the recommendation to monitor levels and effects of prolonged exposure to propylene glycol and glycerin that comprise the bulk of emissions from electronic cigarettes other than nicotine and water vapor. From this perspective, and taking the analogy of work on theatrical fogs [45,46], it can be speculated that respiratory functions and symptoms (but not cancer of respiratory tract or non-malignant respiratory disease) of the vapor is of primary interest. Monitoring upper airway irritation of vapers and experiences of unpleasant smell would also provide early warning of exposure to compounds like acrolein because of known immediate effects of elevated exposures (<http://www.atsdr.cdc.gov/toxprofiles/tp124-c3.pdf>; accessed July 11, 2013). However, it is questionable how much concern should be associated with observed concentrations of acrolein and formaldehyde in the aerosol. Given highly variable assessments, closer scrutiny is probably warranted to understand sources of this variability, although there is no need at present to be alarmed about exceeding even the occupational exposure limits, since occurrence of occasional high values is accounted for in established TLVs. An important clue towards a productive direction for such work is the results reported in [39,40] that convincingly demonstrate how heating the liquid to high temperatures generates compounds like acrolein and formaldehyde in the aerosol. A better understanding about the sources of TSNA in the aerosol may be of some interest as well, but all results to date consistently indicate quantities that are of no more concern than TSNA in smokeless tobacco products. Exposures to nicotine from electronic cigarettes is not expected to exceed that from smoking due to self-titration[11]; it is only a concern when a vaper does not intend to consume nicotine, a situation that can arise from incorrect labeling of liquids[24,43].

The cautions about propylene glycol and glycerin apply only to the exposure experienced by the vapers themselves. Exposure of bystanders to the listed ingredients, let alone the contaminants, does not warrant a concern as the exposure is likely to be orders of magnitude lower than exposure experienced by vapers. Further research employing realistic conditions could help quantify the quantity of exhaled aerosol and its behavior in the environment under realistic worst-case scenarios (i.e., not small sealed chambers), but this is not a priority since the exposure experienced by bystanders is clearly very low compared to the exposure of vapers, and thus there is no reason to expect it would have any health effects.

The key to making the best possible effort to ensure that hazardous exposures from contaminants do not occur is ongoing monitoring of actual exposures and estimation of potential ones. Direct measurement of personal exposures is not possible in vaping due to the fact the aerosol is inhaled directly, unless, of course, suitable biomarkers of exposure can be developed. The current review did not identify any suitable biomarkers, though cotinine is a useful proxy for exposure to nicotine-containing liquids. Monitoring of potential composition of exposures is perhaps best achieved through analysis of aerosol generated in a manner that approximates vaping, for which better insights are needed on how to modify "smoking machines" to mimic vaping given that there are documented differences in inhalation patterns[51]. These smoking machines would have to be operated under a realistic mode of operation of the atomizer to ensure that the process for generation of contaminants is studied under realistic temperatures. To estimate dosage or exposure in personal breathing zone), information on the chemistry of aerosol has to be combined with models of the inhalation pattern of vapers, mode of operation of e-cigarettes and quantities of liquid consumed. Assessment of

exhaled aerosol appears to be of little use in evaluating risk to vapers due to evidence of qualitative differences in the chemistry of exhaled and inhaled aerosol.

Monitoring of liquid chemistry is easier and cheaper than assessment of aerosols. This can be done systematically as a routine quality control measure by the manufacturers to ensure uniform quality of all production batches. However, we do not know how this relates to aerosol chemistry because previous researchers have failed to appropriately pair analyses of chemistry of liquids and aerosols. It is standard practice in occupational hygiene to analyze the chemistry of materials generating an exposure, and it is advisable that future studies of the aerosols explicitly pair these analyses with examination of composition of the liquids used to generate the aerosols. Such an approach can lead to the development of predictive models that relate the composition of the aerosol to the chemistry of liquids, the e-cigarette hardware, and the behavior of the vapor, as these, if accurate, can anticipate hazardous exposures before they occur. The current attempt to use available data to develop such relationships was not successful due to studies failing to collect appropriate data. Systematic monitoring of quality of the liquids would also help reassure consumers and is best done by independent laboratories rather than manufactures to remove concerns about impartiality (real or perceived).

Future work in this area would greatly benefit from standardizing laboratory protocols (e.g. methods of extraction of compounds from aerosols and liquids, establishment of "core" compounds that have to be quantified in each analysis (as is done for PAH and metals), development of minimally informative detection limits that are needed for risk assessment, standardization of operation of "vaping machine", etc.), quality control experiments (e.g. suitable positive and negative controls without comparison to conventional cigarettes, internal standards, estimation of %recovery, etc.), and reporting practices (e.g. in units that can be used to estimate personal exposure, use of uniform definitions of limits of detection and quantification, etc.), all of which would improve on the currently disjointed literature. Detailed recommendations on standardization of such protocols lie outside of scope of this report.

All calculations conducted in this analysis are based on information about patterns of vaping and the content of aerosols and liquids that are highly uncertain in their applicability to "typical" vaping as it is currently practiced and says even less about future exposures due to vaping. However, this is similar to assessments that are routinely performed in occupational hygiene for novel technology as it relied on "worst case" calculations and safety margins that attempt to account for exposure variability. The approach adopted here and informed by some data is certainly superior to some currently accepted practices in the regulatory framework in occupational health that rely purely on description of emission processes to make claims about potential for exposure (e.g.[52]). Clearly, routine monitoring of potential and actual exposure is required if we were to apply the principles of occupational hygiene to vaping. Detailed suggestions on how to design such exposure surveillance are available in [53].

In summary, analysis of the current state of knowledge about the chemistry of *contaminants* in liquids and aerosols associated with electronic cigarettes indicates that there is no evidence that vaping produces inhalable exposures to these contaminants at a level that would prompt measures to reduce exposure by the standards that are used to ensure safety of workplaces. Indeed, there is sufficient evidence to be reassured that there are no such risks from the broad range of the studied products, though the lack of quality control standards means that this cannot be assured for all products on the market. However, aerosol generated during vaping on the whole, when considering the declared ingredients themselves, if it were treated in the same manner as an emission from industrial process, creates personal exposures that would justify surveillance of exposures and health among exposed persons. Due to the uncertainty about the effects of these quantities of propylene glycol and glycerin, this conclusion holds after setting aside concerns about health effects of nicotine. This conclusion holds notwithstanding the benefits of tobacco harm reduction, since

there is value in understanding and possibly mitigating risks even when they are known to be far lower than smoking. It must be noted that the proposal for such scrutiny of "total aerosol" is not based on specific health concerns suggested by compounds that resulted in exceedance of occupational exposure limits, but is instead a conservative posture in the face of unknown consequences of inhalation of appreciable quantities of organic compounds that may or may not be harmful at doses that occur during vaping.

Key Conclusions:

- Even when compared to workplace standards for involuntary exposures, and using several conservative (erring on the side of caution) assumptions, the exposures from using e-cigarettes fall well below the threshold for concern for compounds with known toxicity. That is, even ignoring the benefits of e-cigarette use and the fact that the exposure is actively chosen, and even comparing to the levels that are considered unacceptable to people who are not benefiting from the exposure and do not want it, the exposures would not generate concern or call for remedial action.
- Expressed concerns about nicotine only apply to vapers who do not wish to consume it; a voluntary (indeed, intentional) exposure is very different from a contaminant.
- There is no serious concern about the contaminants such as volatile organic compounds (formaldehyde, acrolein, etc.) in the liquid or produced by heating. While these contaminants are present, they have been detected at problematic levels only in a few studies that apparently were based on unrealistic levels of heating.
- The frequently stated concern about contamination of the liquid by a nontrivial quantity of ethylene glycol or diethylene glycol remains based on a single sample of an early technology product (and even this did not rise to the level of health concern) and has not been replicated.
- Tobacco-specific nitrosamines (TSNA) are present in trace quantities and pose no more (likely much less) threat to health than TSNA from modern smokeless tobacco products, which cause no measurable risk for cancer.
- Contamination by metals is shown to be at similarly trivial levels that pose no health risk, and the alarmist claims about such contamination are based on unrealistic assumptions about the molecular form of these elements.
- The existing literature tends to overestimate the exposures and exaggerate their implications. This is partially due to rhetoric, but also results from technical features. The most important is confusion of the concentration in aerosol, which on its own tells us little about risk to health, with the relevant and much smaller total exposure to compounds in the aerosol averaged across all air inhaled in the course of a day. There is also clear bias in previous reports in favor of isolated instances of highest level of chemical detected across multiple studies, such that average exposure that can be calculated are higher than true value because they are "missing" all true zeros.
- Routine monitoring of liquid chemistry is easier and cheaper than assessment of aerosols. Combined with an understanding of how the chemistry of the liquid affects the chemistry of the aerosol and insights into behavior of vapers, this can serve as a useful tool to ensure the safety of e-cigarettes.
- The only unintentional exposures (i.e., not the nicotine) that seem to rise to the level that they are worth further research are the carrier chemicals themselves, propylene glycol and glycerin. This exposure is not known to cause health problems, but the magnitude of the exposure is novel and thus is at the levels for concern based on the lack of reassuring data.

Acknowledgements

Funding for this work was provided by The Consumer Advocates for Smoke-free Alternatives Association (CASAA) Research Fund. CASAA is an all-volunteer, donation-funded, non-profit organization devoted to defending consumer access to and promoting tobacco harm reduction; for more information, see <http://casaa.org/>. CASAA exercised no editorial control over the author's writing or analysis; the author, not the funder, had full control of the content. The author is thankful to Dr Carl V Phillips, the CASAA Scientific Director, for frank discussion of relevant scientific matters, as well as Drs. Uchiyama and Laugesen for access to presently unpublished data. Lastly, the contribution of Charity Curtis, Masters of Public Health student at Drexel University to the initial literature search was greatly appreciated.

Figure: Illustrating the difference between concentrations in the aerosol generated by vaping and inhaled air in a day. *Panel A* shows black square that represents aerosol contaminated by some compound as it would be measured by a “smoking machine” and extrapolated to dosage from vaping in one day. This black square is located inside the white square that represents total uncontaminated air that is inhaled in a day by a vaper. The relative sizes of the two squares are exaggerated as the volume of aerosol generated in vaping relative to inhaled air is much smaller in the figure. *Panel B* shows how exposure from contaminated air (black dots) is diluted over a day for appropriate comparison to occupational exposure limits that are expressed in terms of “time-weighted average” or average contamination over time rather than as instantaneous exposures (with the exception of “ceiling limits” that do not affect the vast majority of comparisons in this report). Exposure during vaping occurs in a dynamic process where the atmosphere inhaled by the vaper alternates between the smaller black and larger white squares in *Panel A*. Thus, the concentration of contaminants that a vaper is exposed to over a day is much smaller than that which is measured in the aerosol (and routinely improperly cited as reason for concern about “high” exposures).

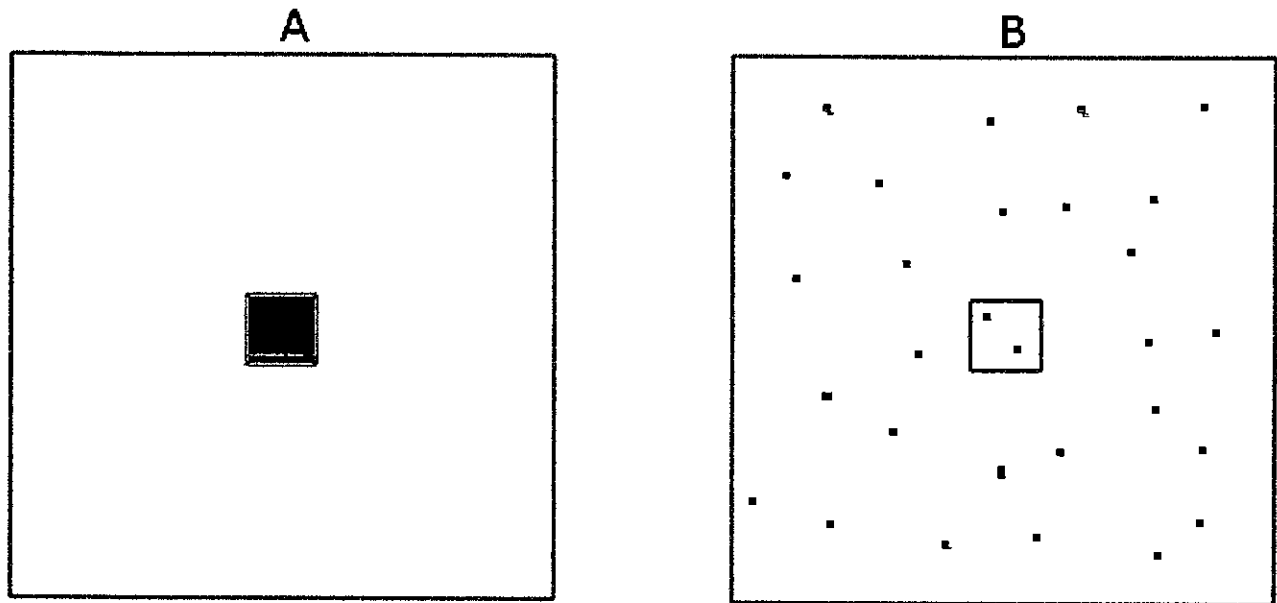


Table 1a: Exposure predictions based on analysis of aerosols generated by smoking machines: Volatile Organic Compounds

Compound	N [#]	Estimated concentration in personal breathing zone		Ratio of most stringent TLV (%)		Reference
		PPM	mg/m ³	Calculated directly	Safety factor 10	
Acetaldehyde	1	0.005		0.02	0.2	[5]
	3	0.003		0.01	0.1	[4]
	12	0.001		0.004	0.04	[8]
	1	0.00004		0.0001	0.001	[3]
	1	0.0002		0.001	0.008	[3]
	150	0.001		0.004	0.04	[39,40]
	1	0.008		0.03	3	[37]
Acetone	1	0.002		0.0003	0.003	[37]
	150	0.0004		0.0001	0.001	[39,40]
Acrolein	12	0.001		1	13	[8]
	150	0.002		2	20	[39,40]
	1	0.006		6	60	[37]
Butanal	150	0.0002		0.001	0.01	[39,40]
Crotonaldehyde	150		0.0004	0.01	0.1	[39,40]
Formaldehyde	1	0.002		0.6	6	[5]
	3	0.008		3	30	[4]
	12	0.006		2	20	[8]
	1	<0.0003		<0.1	<1	[3]
	1	0.0003		0.1	1	[3]
	150	0.01		4	40	[39,40]
	1	0.009		3	30	[37]
Glyoxal	1		0.002	2	20	[37]
	150		0.006	6	60	[39,40]
o-Methylbenzaldehyde	12		0.001	0.05	0.5	[8]
p,m-Xylene	12		0.00003	0.001	0.01	[8]
Propanal	3	0.002		0.01	0.1	[4]
	150	0.0006		0.002	0.02	[39,40]
	1	0.005		0.02	0.2	[37]
Toluene	12	0.0001		0.003	0.03	[8]
Valeraldehyde	150		0.0001	0.0001	0.001	[39,40]

average is presented when N>1

Table 1b: Exposure predictions based on analysis of aerosols generated by smoking machines: Inorganic Compounds[#]

Element quantified	Assumed compound containing the element for comparison with TLV	N ^{##}	Estimated concentration in personal breathing zone (mg/m ³)	Ratio of most stringent TLV (%)		Reference
				Calculated directly	Safety factor 10	
Aluminum	Respirable Al metal & insoluble compounds	1	0.002	0.2	1.5	[25]
Barium	Ba & insoluble compounds	1	0.00005	0.01	0.1	[25]
Boron	Boron oxide	1	0.02	0.1	1.5	[25]
Cadmium	Respirable Cd & compounds	12	0.00002	1	10	[8]
Chromium	Insoluble Cr (IV) compounds	1	3E-05	0.3	3	[25]
Copper	Cu fume	1	0.0008	0.4	4.0	[25]
Iron	Soluble iron salts, as Fe	1	0.002	0.02	0.2	[25]
Lead	Inorganic compounds as Pb	1	7E-05	0.1	1	[25]
		12	0.000025	0.05	0.5	[8]
Magnesium	Inhalable magnesium oxide	1	0.00026	0.003	0.03	[25]
Manganese	Inorganic compounds, as Mn	1	8E-06	0.04	0.4	[25]
Nickel	Inhalable soluble inorganic compounds, as Ni	1	2E-05	0.02	0.2	[25]
		12	0.00005	0.05	0.5	[8]
Potassium	KOH	1	0.001	0.1	1	[25]
Tin	Organic compounds, as Sn	1	0.0001	0.1	1	[25]
Zinc	Zinc chloride fume	1	0.0004	0.04	0.4	[25]
Zirconium	Zr and compounds	1	3E-05	0.001	0.01	[25]
Sulfur	SO ₂	1	0.002	0.3	3	[25]

[#] The actual molecular form in the aerosol unknown and so worst case assumption was made if it was physically possible (e.g. it is not possible for elemental lithium & sodium to be present in the aerosol); there is no evidence from the research that suggests the metals were in the particular highest risk form, and in most cases a general knowledge of chemistry strongly suggests that this is unlikely. Thus, the TLV ratios reported here probably do not represent the (much lower) levels that would result if we knew the molecular forms.

^{##} average is presented when N>1

Table 2: Exposure predictions for volatile organic compounds based on analysis of aerosols generated by volunteer papers

Compound	N [#]	Estimated concentration in personal breathing zone (ppm)	Ratio of most stringent TLV (%)		Reference
			Calculated directly	Safety factor 10	
2-butanone (MEK)	3	0.04	0.02	0.2	[4]
	1	0.002	0.0007	0.007	[6]
2-furaldehyde	3	0.01	0.7	7	[4]
Acetaldehyde	3	0.07	0.3	3	[4]
Acetic acid	3	0.3	3	30	[4]
Acetone	3	0.4	0.2	2	[4]
Acrolein	1	<0.001	<0.7	<7	[6]
Benzene	3	0.02	3	33	[4]
Butyl hydroxyl toluene	1	4E-05	0.0002	0.002	[6]
Isoprene	3	0.1	7	70	[4]
Limonene	3	0.009	0.03	0.3	[4]
	1	2E-05	0.000001	0.00001	[6]
m,p-Xylen	3	0.01	0.01	0.1	[4]
Phenol	3	0.01	0.3	3	[4]
Propanal	3	0.004	0.01	0.1	[4]
Toluene	3	0.01	0.07	0.7	[4]

average is presented when N>1

Reference List

1. Etter JF: *The Electronic Cigarette : an Alternative to Tobacco?* Jean-François Etter; 2012.
2. Pellegrino RM, Tinghino B, Mangiaracina G, Marani A, Vitali M, Protano C *et al.*: **Electronic cigarettes: an evaluation of exposure to chemicals and fine particulate matter (PM).** *Ann Ig* 2012, 24: 279-288.
3. eSmoking Institute. Assessment of e-cigarette safety by comparing the chemical composition of e-cigarette aerosol and cigarette smoke from reference traditional cigarette. <http://www.esmokinginstitute.com/en/node/31> . 2013.

Ref Type: Electronic Citation <http://www.esmokinginstitute.com/en/node/31>

4. Schripp T, Markewitz D, Uhde E, Salthammer T: **Does e-cigarette consumption cause passive vaping?** *Indoor Air* 2013, 23: 25-31.
5. Lauterbach JH, Laugesen M: **Comparison of toxicant levels in mainstream aerosols generated by Ruyan® electronic nicotine delivery systems(ENDS) and conventional cigarette products.** 14 March, 2012; 2012. <http://www.healthnz.co.nz/News2012SOTposter1861.pdf>
6. Romagna G, Zabarini L, Barbiero L, Boccietto E, Todeschi S, Caravati E *et al.*. Characterization of chemicals released to the environment by electronic cigarettes use (ClearStream-AIR project): is passive vaping a reality? 9-1-2012. XIV Annual Meeting of the SRNT Europe 2012, Helsinki, Finland.

Ref Type: Report http://clearstream.flavourart.it/site/wp-content/uploads/2012/09/CSA_ItaEng.pdf

7. Laugesen M. **Safety report on the Ruyan® e-cigarette cartridge and inhaled aerosol** . Edited by Health New Zealand Ltd. 2008.

Ref-Type: Report www.healthnz.co.nz

8. Goniewicz ML, Knysak J, Gawron M, Kosmider L, Sobczak A, Kurek J *et al.*: **Levels of selected carcinogens and toxicants in vapour from electronic cigarettes.** *Tob Control* 2013.
9. Benowitz NL, Jacob P, III: **Daily intake of nicotine during cigarette smoking.** *Clin Pharmacol Ther* 1984, 35: 499-504.
10. The American Conference of Governmental Industrial Hygienists: **2013 threshold limit values for chemical substances and physical agents & biological exposure indices.** Cincinnati, OH: ACGIH; 2013.
11. Scherer G: **Smoking behaviour and compensation: a review of the literature.** *Psychopharmacology (Berl)* 1999; 145: 1-20.
12. Ganong WF: *Review of medical physiology*, 15 edn. London: Prentice Hall; 1995.
13. Holmes JR. How Much Air Do We Breathe? Research Note 94-11. 1994. California Environmental Protection Agency.

Ref.Type: Report <http://www.arb.ca.gov/research/resnotes/notes/94-11.htm>

14. Alliance Technologies L. Chemical composition of "Instead" electronic cigarette smoke juice and vapor. 2009.

Ref Type: Report www.alliancetechnology.com

15. Alliance Technologies L. Characterization of liquid "Smoke Juice" for electronic cigarettes. 2009.
Ref Type: Report www.alliancetechnology.com
16. Alliance Technologies L. Characterization of Regal cartridges for electronic cigarettes. 2009.
Ref Type: Report www.alliancetechnology.com
17. Alliance Technologies L. Characterization of regal cartridges for electronic cigarettes - Phase II. 2009.
Ref Type: Report www.alliancetechnology.com
18. eSmoking Institute. Identifying the concentration of chemical compounds and heavy metals in liquids.
<http://www.esmokinginstitute.com/en/node/32> . 2013.
Ref Type: Electronic Citation <http://www.esmokinginstitute.com/en/node/32>
19. Evans Analytical Group. Gas chromatography mass spectroscopy (GC-MS) analysis report; JOB NUMBER C09Y8961. 2009.
Ref Type: Report www.eaglabs.com
20. Coulson H. Analysis of components from Gamucci electronic cigarette cartridges, tobacco flavour regular smoking liquid; Report number: E98D. Edited by LPD Laboratory Services, Blackburn MicroTech Solutions Ltd. 2009.
Ref Type: Report www.lpdlabservices.co.uk
21. Ellicott M. Analysis of components from "e-Juice XX HIGH 36mg/ml rated Nicotine Solution" ref S 55434; Report Number: E249A. Edited by LPD Laboratory Services, Blackburn MicroTech Solutions Ltd. 2009.
Ref Type: Report www.lpdlabservices.co.uk
22. Westenberger BJ. Evaluation of e-cigarettes; DPATR-FY-09-23. Edited by US Food and Drug Administration. 2009.
Ref Type: Report <http://www.fda.gov/downloads/drugs/scienceresearch/UCM173250.pdf>
23. McAuley TR, Hopke PK, Zhao J, Babaian S: **Comparison of the effects of e-cigarette vapor and cigarette smoke on indoor air quality.** *Inhal Toxicol* 2012, **24**: 850-857.
24. Goniewicz ML, Kuma T, Gawron M, Knysak J, Kosmider L: **Nicotine levels in electronic cigarettes.** *Nicotine Tob Res* 2013, **15**: 158-166.
25. Williams M, Villarreal A, Bozhilov K, Lin S, Talbot P: **Metal and silicate particles including nanoparticles are present in electronic cigarette cartomizer fluid and aerosol.** *PLoS One* 2013, **8**: e57987.
26. Laugesen M. Ruyan® E-cigarette bench-top tests. Society for Research on Nicotine and Tobacco, Dublin, April 30, 2009 . 2009.
Ref Type: Abstract
27. Tytgat J. "Super Smoker" expert report. Edited by CATHOLIC UNIVERSITY L. 2007.
Ref Type: Report
28. Valance C, Ellicott M. Analysis of chemical components from high, med & low nicotine cartridges; Report Number: D318. Edited by LPD Laboratory Services, Blackburn MicroTech Solutions Ltd. 2008.
Ref Type: Report www.lpdlabservices.co.uk

29. Kubica P, Kot-Wasik A, Wasik A, Namiesnik J: "Dilute & shoot" approach for rapid determination of trace amounts of nicotine in zero-level e-liquids by reversed phase liquid chromatography and hydrophilic interactions liquid chromatography coupled with tandem mass spectrometry-electrospray ionization. *J Chromatogr A* 2013, **1289**: 13-18.
 30. Trehy ML, Ye W, Hadwiger ME, Moore TW, Allgire JF, Woodruff JT *et al.*: Analysis of Electronic Cigarette Cartridges, Refill Solutions, and Smoke for Nicotine and Nicotine Related Impurities. *Journal of Liquid Chromatography & Related Technologies* 2011, **34**: 1442-1458.
 31. Graves I. Report no. 468304. 60 ml sample of mist from 11 mg nicotine e-cigarette cartridge. Thermal desorption tubes. 468304. 9-5-2008. Hamilton, New Zealand, Hill Laboratories.
- Ref Type: Report
32. Pattison J, Valenty SJ. Material characterization report. 0910.14. 10-21-2009. Analyze Inc.
Ref Type: Report <http://vaporsclub.com/NJOYvaporstudy.pdf>
 33. Sodoma A, Caggiano CM. Material characterization report. 0706.04. 6-28-2007. Analyze Inc.
Ref Type: Report <http://truthaboutecigs.com/science/16.pdf>
 34. Anspach T. Determination of tobacco-specific nitrosamines (TSNA) in aroma fluid for e-cigarettes. 11-57021. 9-1-2011. Eurofins Dr.Specht Laboratorien.
- Ref Type: Report <http://clearstream.flavourart.it/site/wp-content/uploads/DATI/vari/nitrosaminanalyse%20Virginia%2018.pdf>
35. Kim HJ, Shin HS: Determination of tobacco-specific nitrosamines in replacement liquids of electronic cigarettes by liquid chromatography-tandem mass spectrometry. *J Chromatogr A* 2013, **1291**: 48-55.
 36. Hadwiger ME, Trehy ML, Ye W, Moore T, Allgire J, Westenberger B: Identification of amino-tadalafil and rimonabant in electronic cigarette products using high pressure liquid chromatography with diode array and tandem mass spectrometric detection. *J Chromatogr A* 2010, **1217**: 7547-7555.
 37. Uchiyama S, Inaba Y, Kunugita N: Determination of acrolein and other carbonyls in cigarette smoke using coupled silica cartridges impregnated with hydroquinone and 2,4-dinitrophenylhydrazine. *J Chromatogr A* 2010, **1217**: 4383-4388.
 38. Uchiyama S. Determination of acrolein and other carbonyls in cigarette smoke using coupled silica cartridges impregnated with hydroquinone and 2,4-dinitrophenylhydrazine. 2013.
- Ref Type: Personal Communication
39. Uchiyama S. <unpublished concentrations from experiments presented in https://www.istage.jst.go.jp/article/bunsekikagaku/60/10/60_10_791/pdf; through personal communications>. 2013.
- Ref Type: Unpublished Work Uchiyama_E-cigarette_rm1851.PDF
40. Ohta K, Uchiyama S, Inaba Y, Nakagome H, Kunugita N: Determination of Carbonyl Compounds Generated from the Electronic Cigarette Using Coupled Silica Cartridges Impregnated with Hydroquinone and 2,4-Dinitrophenylhydrazine. *BUNSEKI KAGAKU* 2011, **60**: 791-797.
 41. eSmoke. Analytical reports on batches of e-liquids. <http://www.esmoke.net/pages.php?pageid=20> . 2009. 7-11-2013.

Ref Type: Electronic Citation <http://www.esmoke.net/pages.php?pageid=20>

42. Murphy J, Wong E, Lawton M. Chemical and operational assessment of the Ruyan classic e-cigarette. Report P.474. 2-8-2010. British American Tobacco.

Ref Type: Report

43. Trtchounian A, Talbot P: **Electronic nicotine delivery systems: is there a need for regulation?** *Tob Control* 2011, **20**: 47-52.
44. Etter JF, Bullen C, Flouris AD, Laugesen M, Eissenberg T: **Electronic nicotine delivery systems: a research agenda.** *Tob Control* 2011, **20**: 243-248.
45. Varughese S, Teschke K, Brauer M, Chow Y, van NC, Kennedy SM: **Effects of theatrical smokes and fogs on respiratory health in the entertainment industry.** *Am J Ind Med* 2005, **47**: 411-418.
46. Teschke K, Chow Y, van NC, Varughese S, Kennedy SM, Brauer M: **Exposures to atmospheric effects in the entertainment industry.** *J Occup Environ Hyg* 2005, **2**: 277-284.
47. Hecht SS, Hoffmann D: **Tobacco-specific nitrosamines, an important group of carcinogens in tobacco and tobacco smoke.** *Carcinogenesis* 1988, **9**: 875-884.
48. Digard H, Errington G, Richter A, McAdam K: **Patterns and behaviors of snus consumption in Sweden.** *Nicotine Tob Res* 2009, **11**: 1175-1181.
49. Phillips CV, Sargent C, Rabi D, Rodu B. Calculating the comparative mortality risk from smokeless tobacco vs. smoking. *American Journal of Epidemiology*, 163 (11):S189, 2006. *American Journal of Epidemiology* 163[11], S189. 2006.

Ref Type: Abstract

50. Liedel NA, Busch KA, Crouse WE. Exposure measurement action level and occupational environmental variability. HEW Publication No. (NIOSH) 76-131. 1975. Cincinnati, OH, US Department of Health, Education, and Welfare, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, Division of Laboratories and Criteria Development.

Ref Type: Report <http://www.cdc.gov/niosh/docs/76-131/pdfs/76-131.pdf>

51. Trtchounian A, Williams M, Talbot P: **Conventional and electronic cigarettes (e-cigarettes) have different smoking characteristics.** *Nicotine Tob Res* 2010, **12**: 905-912.
52. Tischer M, Bredendiek-Kamper S, Poppek U, Packroff R: **How safe is control banding? Integrated evaluation by comparing OELs with measurement data and using monte carlo simulation.** *Ann Occup Hyg* 2009, **53**: 449-462.
53. British Occupational Hygiene Society, Nederlandse Vereniging voor Arbeidshygiëne. Testing compliance with occupational exposure limits for airborne substances. 2011.

Ref Type: Report

Electronic cigarettes

(also known as vapourisers)

www.ash.org.uk

Summary

- Electronic cigarettes are not cigarettes. They do not contain tobacco and using them is not smoking.
- ASH, in line with the NICE guidance on Tobacco Harm Reduction, always recommends that quitting all forms of nicotine use is the best option for smokers.
- However, for those who remain addicted to nicotine NICE guidance recommends the use of medicinally licensed nicotine containing products as an alternative to smoking or to cut down or for temporary abstinence to help reduce the harms of smoking.
- NICE guidance cannot recommend the use of unlicensed nicotine containing products but many smokers are finding unlicensed electronic cigarettes helpful. Research by ASH shows that their use has grown threefold in the last two years from 700,000 to 2.1 million users.¹
- Electronic cigarettes are proving more attractive to smokers than NRT^{1,2} while providing them with a safer alternative to cigarettes.³ There is evidence that they can be effective in helping smokers' quit^{2,4} and little evidence that they are being used by never smokers.
- The number of children and young people regularly using electronic cigarettes remains very low and their use is almost entirely amongst those who are current or ex-smokers.¹ This is a similar pattern to that found in jurisdictions such as the USA.⁵
- ASH supports enhanced regulation to ensure the safety and reliability of electronic cigarettes and to prevent their promotion to non-smokers and children.
- However, in the absence of evidence of significant harm to bystanders, ASH does not support the inclusion of electronic cigarettes in smokefree laws which would completely prohibit their use in enclosed public places.

Currently electronic cigarettes are regulated as general consumer products. Once the EU Tobacco Products Directive (TPD) comes into effect in Member States in May 2016, electronic cigarettes containing up to 20mg/ml of nicotine will come under the TPD (levels of 18mg/ml have been reported on user websites as suitable for typical smokers).⁶ Above that level, or if manufacturers and importers decide to opt into medicines regulation, such products will require authorisation by the Medicines and Healthcare Products Regulatory Agency (MHRA) as over the counter medicines in the same way as nicotine replacement therapy (NRT).⁷

Nicotine Substitution

Smoking is the largest preventable cause of premature mortality in the UK.⁸ The goal of tobacco control is to diminish the harm caused by tobacco products. While the ideal remains that people should stop using tobacco completely and permanently, consensus currently supports a properly regulated harm reduction approach for those unable to do so.^{9,10,11} This is a framework by which the harmful effects of smoking are reduced without requiring the elimination of a behaviour that is not necessarily condoned. Such strategies have proved successful in the past, for example within the contexts of needle exchange programmes for illicit drug use and the promotion of safer sex to prevent HIV infection.^{12,13}

In 1976 Professor Michael Russell wrote: "People smoke for nicotine but they die from the tar."¹⁴ Indeed, the harm from smoking is caused primarily through the toxins produced by the burning of tobacco. By contrast, non-tobacco, non-smoked nicotine products, although addictive, are considerably less harmful.

Electronic cigarettes consequently represent a safer alternative to cigarettes for smokers who are unable or unwilling to stop using nicotine.

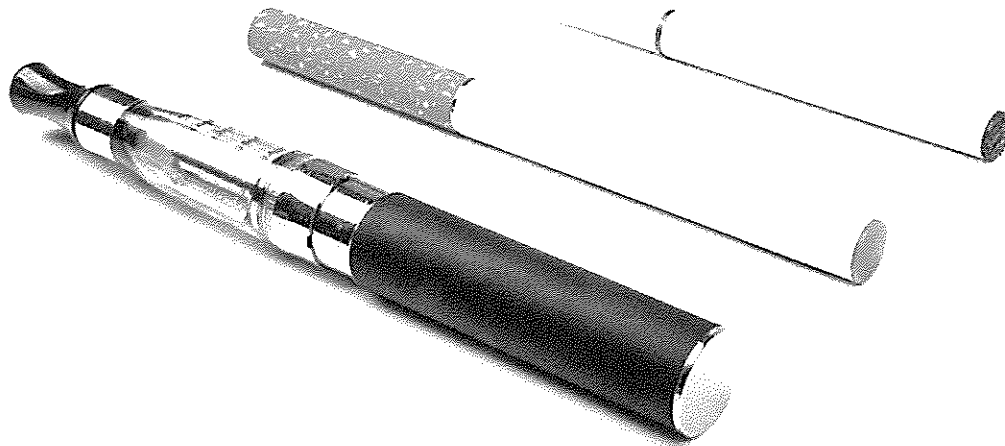
The National Institute for Health and Care Excellence (NICE) has developed guidance on a harm reduction approach to smoking.¹⁵ NICE's recommendations aim to inform on how best to reduce illness and deaths attributable to smoking through a harm reduction approach. As part of this guidance, NICE supports the use of licensed nicotine containing products (NCPs) to help smokers cut down, for temporary abstinence and as a substitute for smoking, possibly indefinitely. NICE guidance cannot recommend the use of unlicensed nicotine containing products. However, the guidance is clear that using an electronic cigarette is safer than smoking.¹³

What are electronic cigarettes?

Electronic cigarettes, also known as vapourisers or electronic nicotine delivery systems (ENDS),¹⁶ are often, although not always, designed to look and feel like cigarettes. They have been marketed as less harmful alternatives to cigarettes and for use in places where smoking is not permitted since they do not produce smoke.

There are three main types of electronic cigarettes or vapourisers:

- Disposable products (non-rechargeable)
- An electronic cigarette kit that is rechargeable with replaceable pre-filled cartridges
- An electronic cigarette that is rechargeable and has a tank or reservoir which has to be filled with liquid nicotine



The first two types of electronic cigarette are often known as 'cigalike' products as they resemble cigarettes and often have a light at the end that glows when the user draws on the device to resemble a lit cigarette. The liquid in the devices usually contains nicotine suspended in propylene glycol and glycerine. The level of nicotine in the cartridges may vary and most also contain flavourings.¹⁷ When a user sucks on the device, a sensor detects air flow and heats the liquid in the cartridge so that it evaporates. The vapour delivers the nicotine to the user. There is no side-stream smoke but some nicotine vapour is released into the air as the smoker exhales.

Are electronic cigarettes safe to use?

Compared with smoking using an electronic cigarette is safer. However, in the absence of a thorough clinical evaluation and long term population level surveillance, absolute safety of such products cannot be guaranteed. By comparison, the harm from tobacco smoking – the leading cause of preventable death in the UK – is well established.

Most, but not all electronic cigarettes contain nicotine. As noted above, the harm from smoking comes mainly from inhaling tobacco smoke rather than the nicotine. However, nicotine is an addictive drug which stimulates the nervous system, increasing the heart rate and blood pressure.¹⁸

Toxins have been found in a number of studies of electronic cigarettes^{19,20,21,22} although these are at levels much lower than those found in cigarettes and not at levels which would generally cause concern.^{23,24,25}

One small study showed that after switching from tobacco to electronic cigarettes nicotine exposure was unchanged while exposure to selected toxicants was substantially reduced.²⁶

Most of the safety concerns regarding electronic cigarettes relate to the absence of appropriate product regulation and inconsistencies in quality control. The current lack of regulatory oversight means that there is significant variability in device effectiveness, nicotine delivery and cartridge nicotine content both between and sometimes within product brands.¹⁵

Research has identified possible concerns about specific products. A recent study by the US Food and Drug Administration (FDA) has raised some safety concerns over the presence of toxins, released in low concentrations, from the vaporisation process of certain cartridges.²⁷

There is little evidence of harmful effects in the short to medium term from repeated exposure to propylene glycol, the chemical in which nicotine is suspended.^{28,29} One study concludes that electronic cigarettes have a low toxicity profile, are well tolerated, and are associated with only mild adverse effects.³⁰ More research is needed on long-term impact, particularly on the lungs.

Is there a risk to non-users from electronic cigarette vapour?

Although electronic cigarettes do not produce smoke, users exhale a smoke-like vapour which consists largely of propylene glycol and glycerine. The level of nicotine present in electronic cigarette vapour is about one tenth of that generated by a cigarette.³¹ Any health risks of secondhand exposure to propylene glycol vapour are likely to be limited to irritation of the throat. One study exposed animals to propylene glycol for 12 to 18 months at doses 50 to 700 times the level the animal could absorb through inhalation. Compared to animals living in normal room atmosphere, no localised or generalised irritation was found and kidney, liver, spleen and bone marrow were all found to be normal.²⁵ A recent review of the impact of electronic cigarettes noted that passive exposure to the aerosol can expose non-users to nicotine but at concentrations that are unlikely to have any pharmacological significance.³²

The fact that many electronic cigarettes look similar to conventional cigarettes has been said to risk confusion as to their use in enclosed public places, such as on public transport.^{33,34} However, given that the most distinctive feature of cigarette smoking is the smell of the smoke, which travels rapidly, and that this is absent from electronic cigarette use, it is not clear how any such confusion would be sustained.

Furthermore, the absence of risk from "secondhand" inhalation of vapour from electronic cigarettes has been described as an "often unconsidered advantage" of electronic cigarettes.³⁵ As an alternative to smoking, electronic cigarettes are preferable in situations where secondhand smoke poses serious health risks to others, such as in vehicles or in the home.

Are electronic cigarettes effective in helping smokers quit?

The degree of effectiveness depends on what effect is being measured. ASH research shows that the most commonly reported reason for using electronic cigarettes (among all who report using or having tried them) was "to help me stop smoking tobacco entirely".³⁶ Current smokers also report that they use the devices to "help me reduce the amount I smoke but not stop completely". Effectiveness also varies between products and between users according to their experience in use.³⁷

Currently in the UK, any nicotine-containing product which claims or implies that it can treat nicotine addiction is considered to be a medicinal product and is therefore subject to regulation by the MHRA. Consequently, electronic cigarette manufacturers have avoided making such explicit claims. Furthermore, the WHO has stated that "the electronic cigarette is not a proven nicotine replacement therapy".³⁸

Nevertheless, survey data suggests that, whatever the reason e-cigarette use may have been initiated, about 4 in 10 users in England currently use them in an attempt to quit smoking.³¹ Recently published population level data shows they have taken over from over the counter NRT as the most popular support people use when quitting smoking² and are 60% more effective than NRT bought over the counter in helping smokers quit.⁴ The effectiveness in that study was broadly similar to using a prescription medicine (including NRT) with limited professional support and less than using a prescription medicine with specialist behavioural support. A randomised controlled trial conducted in New Zealand found that electronic cigarettes, with or without nicotine, were modestly effective at helping smokers to quit, with broadly similar achievement of abstinence as with nicotine patches.³⁹ There is also some evidence to suggest that electronic cigarette use leads to abstinence among some smokers who had not intended to quit.⁴⁰

Empirical data on the effectiveness of electronic cigarettes as nicotine delivery devices are still being collected.⁴¹ Some reports from the published literature suggest that electronic cigarettes are inefficient nicotine delivery devices and result in only modest and unreliable increases in plasma nicotine levels.⁴² Such findings appear to apply particularly to new users whereas studies using participants experienced in electronic cigarette use have been found to derive more reliable nicotine intake levels.²⁷ Whether experienced users are able to use these devices in a way in which their nicotine intake is maximised, or the variability is due to such users preferring certain devices which might significantly differ from those used by inexperienced users, is yet to be determined.^{43,44}

Nevertheless, growing evidence suggests that electronic cigarettes are becoming more reliable in their nicotine delivery and that they have a beneficial impact in reducing subjective cravings and, in turn, number of cigarettes smoked.²⁷ Moreover, some studies have demonstrated an ability for certain brands of electronic cigarettes to reduce nicotine cravings despite delivering low plasma nicotine levels.⁴⁵ A recent review on the use, safety and effects of electronic cigarettes concluded that the devices do enable some smokers to reduce or quit smoking and that they offer a route to complete cessation of nicotine use.³³

Another feature of electronic cigarettes that apparently lends to their effectiveness is an ability to provide an approximation to the superficial aspects of the experience of smoking. This has been demonstrated by users exhibiting reduced cravings, withdrawal symptoms and number of cigarettes smoked per day even when given a placebo electronic cigarette.²⁷

The potential value, and perceived effectiveness, of electronic cigarettes in aiding smoking cessation has been assessed in user surveys. Caution must be exercised with these data as the samples have been recruited from electronic cigarette users' websites. However, one such survey conducted internationally reported that 72% of users believed that electronic cigarettes were beneficial in reducing cravings and withdrawal symptoms while 92% declared that the devices had reduced the number of conventional cigarettes they smoked. Indeed, in the same survey, 96% of former smokers claimed that electronic cigarettes had helped them quit, and 79% reported a fear that if they stopped using them they would start smoking again.⁴⁶

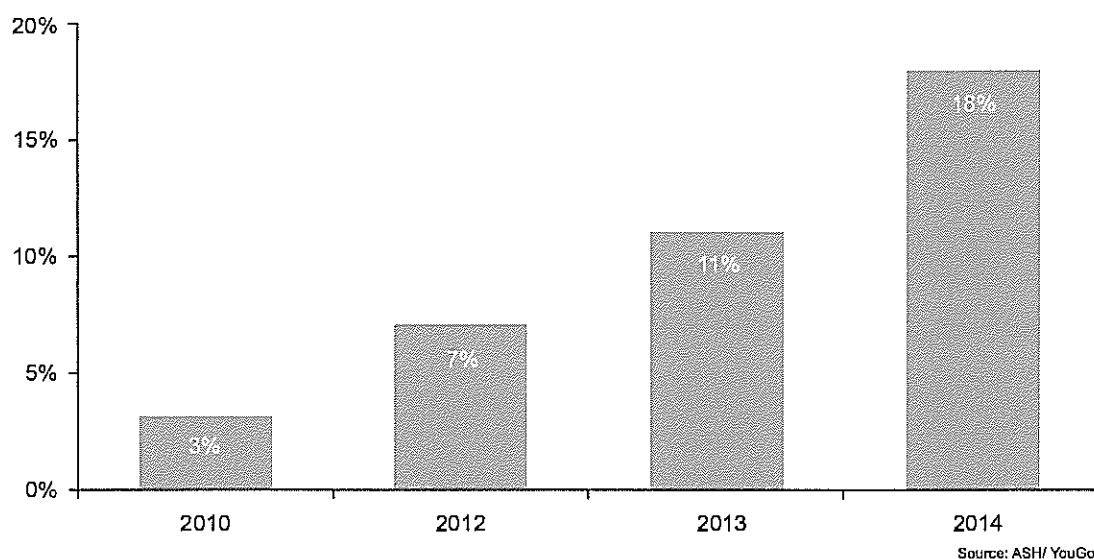
Who uses electronic cigarettes in the UK?

Public awareness of electronic cigarettes has grown substantially in recent years with online media playing an integral role in the growing popularity of the product.

Between the years 2009 and 2011 searches via the search engine Google using the terms 'electronic cigarette' increased fifty fold,⁴⁷ a fact the industry has attempted to capitalise on by funding various online adverts, web-pages and social networking site groups.⁴⁸ In addition to the influence of online media, there is also evidence to suggest that tighter tobacco control measures are also positively driving electronic cigarette behaviour.⁴⁹

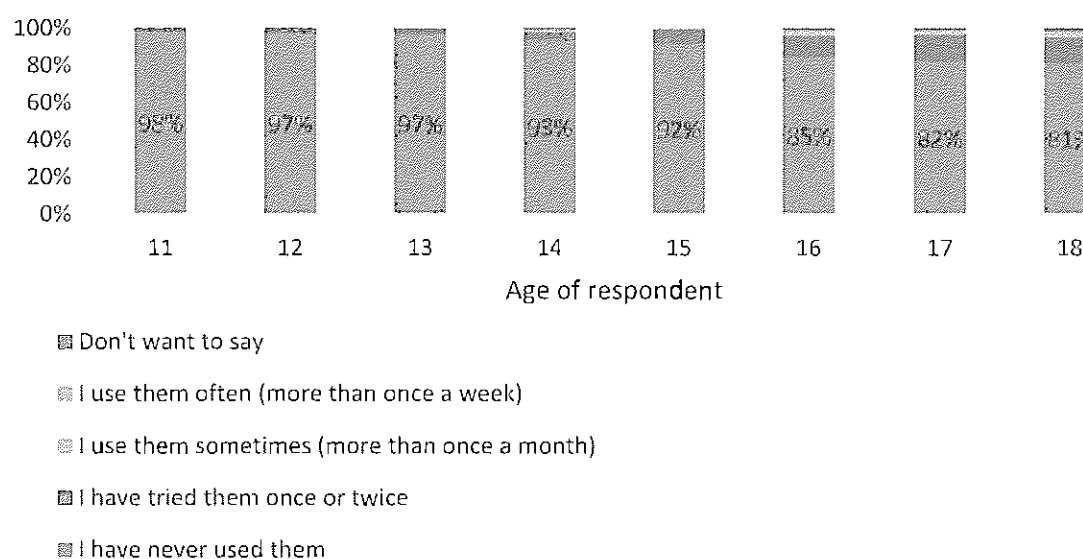
According to surveys commissioned by ASH, 3% of smokers in Great Britain reported using electronic cigarettes regularly in 2010, a figure that has increased to 18% in 2014 (see figure 1). Similarly, the number of smokers reporting having tried electronic cigarettes has increased significantly, from 9% in 2010 to 22% in 2012, 35% in 2013 and 52% in 2014.

Figure 1: Usage of e-cigarettes amongst adult smokers in Britain



One of the risks highlighted by professionals is that electronic cigarettes could act as a 'gateway' to smoking tobacco among children. Current evidence suggests this phenomenon is not occurring. Among children, current electronic cigarette use is confined almost entirely to those who have already tried smoking.^{50,51} Figure 2 further shows that even having tried electronic cigarettes is rare among children, particularly those under the age of 15.

Figure 2: Usage of electronic cigarettes among children in Britain, 2014



ASH estimates that there are 2.1 million current users of electronic cigarettes in the UK.⁵² This number consists almost entirely of current and ex-smokers; of these approximately one third are ex-smokers while two thirds continue to use tobacco alongside electronic cigarettes. There is little evidence to suggest that anything more than a negligible number of never-smokers regularly use the product.⁴⁵

For further information see:

ASH Factsheet: [Use of electronic cigarettes in Great Britain](#)

The National Centre for Smoking Cessation and Training (NCSCT) has produced an [e-cigarette briefing](#) summarising the evidence to date, especially in relation to the role of the stop smoking services and how stop smoking practitioners should respond to enquiries about e-cigarettes from smokers.

Regulation

Concerns have been raised about the rapid growth of the electronic cigarette market and the increasing involvement of tobacco companies in the industry. The World Health Organization treaty on tobacco (WHO Framework Convention on Tobacco Control) obliges signatories to protect health policy with respect to tobacco control from the 'commercial and vested interests' of the tobacco industry. Tobacco company involvement in tobacco harm reduction is a cause for concern.

Regulation has been seen as an important part of limiting the risk of tobacco industry involvement and to ensure the market evolves in a way that supports public health objectives.

In February 2014 the EU Tobacco Products Directive (TPD) was passed by the European Parliament and became law on 29 April. Member States now have until 20 May 2016 to transpose the new rules into national law.

Electronic cigarettes containing up to 20mg/ml come under the TPD.⁵³ Above that level electronic cigarettes will require marketing authorisation as medicines if they are to remain on the market.⁵

The detailed requirements of regulation under the TPD are as follows:

- A limit on nicotine strength of 20mg/ml (vaper websites say 18 ml/mg is the strength usually found suitable by average smokers⁵⁴)
- A size limit for e-liquids of 10ml for dedicated refill containers and 2ml for electronic cigarette cartridges and tanks.
- Safety mechanisms (such as childproof fastening and opening) for e-liquid containers, cartridges and tanks.
- Warnings on the two largest surfaces of the packs and any outside packaging covering 30% of the external area. These must state either '*This product contains nicotine which is a highly addictive substance*' or the above plus '*It is not recommended for use by non-smokers*'.
- Consumer information must also include instructions on use, information on addictiveness and toxicity, a list of all ingredients and information on nicotine content along with a prohibition on promotional materials on packs.
- Manufacturers and importers bear full responsibility for the quality and safety of their product and must notify detailed information about their products to competent authorities in each Member State.
- Prohibition on cross-border advertising promotion and sponsorship in line with that for tobacco products.
- Member States will be able to introduce extra safeguards for example on age-limits and flavourings in electronic cigarettes.

Until regulations implementing the EU Directive take effect electronic cigarettes not licenced as medicines will continue to be subject to general consumer protection law and it is the responsibility of trading standards officers to enforce the law.

In addition, the Children & Families Act 2014 gave the Government powers to ban the sale of electronic cigarettes to persons under the age of 18. A consultation on draft regulations is expected soon.

On 12 September 2014, Kind Consumer, a healthcare research and development company, announced that it had been granted marketing authorisation from the MHRA for a novel nicotine inhaler designed to help smokers cut down or quit smoking. The product called Voke is being developed with the company's partner, Nicoventures, a wholly-owned subsidiary of BAT.⁵⁵

The MHRA has said that it "*continues to encourage companies to voluntarily submit medicines licence applications for electronic cigarettes and other NCPs as medicines*".⁵⁶ Public Health England supports the regulation by the MHRA of nicotine-containing products – including e-cigarettes – as medicines, to give people access to safe products that are also effective.⁵⁷ In the UK medicines regulation has some advantages for electronic cigarette manufacturers and importers over regulation under the TPD.

The following table shows the main elements of regulation under the TPD versus medicines regulation:

Characteristics of regulation under Tobacco Products Directive and MHRA	
Tobacco Products Directive regulation of electronic cigarettes	MHRA licenced Nicotine Containing Products (NCPs) including e-cigs
Products not available on prescription	Products available on prescription
20% VAT	5% VAT
Cross border advertising banned by 2016; up to Member States to decide on domestic advertising (billboards, Point of Sale, buses etc.)	Advertising allowed – under OTC rules so no celebrity endorsement, free samples and must be targeted at adult smokers etc.
Products widely available	Products available on general sale (GSL)
Can't make health claims	Can make health claims
Upper limits for nicotine content will be set and likely to be in force by 2017.	MHRA regulation is flexible; there are no upper limits.
30% health warning on packs about nicotine on front and back of packs	No health warnings on packs. Pack contains detailed Patient Information Leaflet.
Member States retain powers e.g. on flavours, domestic advertising.	Flavours require a marketing authorisation
Children and Families Bill allows for age of sale of 18 for nicotine products.	Age of sale 12 but can be varied by product so could be higher for e-cigarettes.

Following a referral from the Department of Health, NICE published guidance on tobacco harm reduction on 5th June 2013 as mentioned above.⁷ This guidance recommended the use of licensed NCPs, which are nicotine replacement therapy products licensed by the MHRA (and do not at the current time include electronic cigarettes) for harm reduction purposes. Such purposes include using licensed NCPs as a substitute for tobacco, possibly indefinitely, to cut down prior to quitting, to smoke less, or to temporarily abstain from smoking.

Regulation of Advertising of electronic cigarettes

Some advertising for electronic cigarettes has been criticised as possibly attractive to young people and never-smokers.⁵⁸ There is a risk that inappropriate advertising could glamorise smoking and undermine public health goals. The involvement of the tobacco industry in the electronic cigarette market also raises questions about the opportunity of this industry to reach young people with pro-smoking messages.

Following a public consultation, CAP, the Committee on Advertising Practice, published new rules on the advertising of electronic cigarettes to cover the interim period between now and when the TPD comes into effect.

Key measures include:

- Ads must not be likely to appeal to people under 18
- People shown using e-cigarettes must neither be, nor seem to be under 25
- Ads must not be directed at people under 18 through the selection of media or the context in which they appear
- Ads must not encourage non-smokers or non-nicotine users to use electronic cigarettes
- Ads must make clear that the product is an e-cigarette and not a tobacco product.

CAP will monitor the effect of the rules and conduct a review after 12 months.

ASH's response to the public consultation can be viewed [here](#).

Regulation of where electronic cigarettes can be used

Currently, electronic cigarettes are not regulated under smokefree laws in the UK, although this is under consideration in Wales.⁵⁹ In general, users are free to use them in most public places such as bars, restaurants and on public transport, although the managers of some premises have prohibited their use.

One stated advantage of smokefree legislation is that it de-normalises smoking, effectively distancing the behaviour from what is an accepted social norm. The ban on smoking in public places has reinforced in many people's minds that such behaviour has gone from a normal, widely accepted activity to one that is abnormal and unaccepted. There are concerns that electronic cigarettes will undermine this process, threatening the now established practice of smokefree public places, such as at work or on public transport. However to date there is little evidence to suggest this is the case.

ASH has worked with the Chartered Institute of Environmental Health and the Trading Standards Institute to produce guidance for organisations considering whether or not to ban the use of electronic cigarettes on their premises.⁶⁰ This provides a structure for thinking through the issues but leaves it to organisations to develop their own approach informed by the evidence.

Global Guidance

In August 2014 the World Health Organization published a report on ENDS (electronic nicotine delivery systems, more commonly known as electronic cigarettes) for discussion by the WHO Framework Convention on Tobacco Control Conference of the Parties meeting in October. Parties to the WHO FCTC were asked to note the report and '*provide further guidance*'.⁶¹ The Framework Convention Alliance (FCA), which represents civil society organisations, developed a consensus position in advance of the COP on the principles which should underpin any regulatory system. See box below.⁶²

The COP agreed with the FCA that global guidelines are not yet feasible but did invite "Parties to consider prohibiting or regulating ENDS including as tobacco products, medicinal products, consumer products, or other categories, as appropriate, taking into account a high level of protection for human health". Furthermore, the WHO was asked to prepare a report for the next COP with an update on the evidence of the health impacts, the potential role in quitting tobacco usage, methods to measure contents and emissions of these products, and impact on tobacco control efforts and policy options.

Principles to guide policy on tobacco harm reduction and electronic cigarettes:

- The global burden of death and disease from tobacco is primarily caused by smoking.
- While quitting tobacco use is paramount, quitting nicotine use altogether is the best option.
- For those unable to quit, switching to alternative sources of nicotine that are less harmful than tobacco can reduce, often very substantially, the harm smoking causes to the individual.
- The benefits of such an approach would be maximized if uptake were limited to existing smokers who are unable to quit.
- The risks of such an approach would be minimized by limiting uptake by never-smokers, in particular amongst young people, and by taking measures to protect non-users and discourage long-term dual use.
- There could be negative unintended consequences from over-regulation just as there could be from under-regulation.
- The involvement of tobacco companies in the production and marketing of electronic cigarettes is a matter of particular concern as there is an irreconcilable conflict of interest between those profiting from the sale of tobacco and public health.

Conclusion

ASH recognises that whilst efforts to help people stop smoking should remain a priority, many smokers either do not wish to stop quit or find it very hard to do so because of their addiction to nicotine. For this group, nicotine containing products which have been properly regulated to ensure product safety, quality and efficacy should be available as an alternative to tobacco.

Most of the diseases associated with smoking are caused by inhaling smoke which contains thousands of toxic chemicals. By contrast, nicotine is relatively safe. Electronic cigarettes, which deliver nicotine without the harmful toxins found in tobacco smoke, are a safer alternative to smoking. In addition, electronic cigarettes reduce secondhand smoke exposure in places where smoking is allowed since they do not produce smoke. Nonetheless, nicotine is an addictive substance, electronic cigarettes currently available are highly variable in terms of delivery of nicotine and product quality, and smokers are uncertain about the effectiveness of the product. There are concerns, as yet unsupported by evidence, that these products may provide a gateway into smoking for children and young people. The regulation of these products, in particular with respect to their advertising, promotion and sponsorship needs to be undertaken with these factors in mind.

In the UK smokefree legislation exists to protect the public from the demonstrable harms of secondhand smoke. ASH does not consider it appropriate for electronic cigarettes to be subject to this legislation, but that it should be for organisations to determine on a voluntary basis how these products should be used on their premises.⁵⁵

References

- 1 ASH. Use of electronic cigarettes in Great Britain. April 2014.
- 2 West, R. Electronic cigarettes in England: latest trends. Smoking Toolkit Study. 8 April 2014.
- 3 Goniewicz et al. Levels of selected carcinogens and toxicants in vapour from electronic cigarettes. *Tob Control* doi:10.1136/tobaccocontrol-2012-050859
- 4 Brown J, Beard E, Kotz D, Michie S & West R. Real-world effectiveness of e-cigarettes when used to aid smoking cessation: a cross-sectional population study. Published online 20 May 2014.
- 5 CDC. National Youth Tobacco Survey. Atlanta, GA: US Department of Health and Human Services, CDC; 2013.
- 6 See for example:
www.learn.eversmoke.com/nicotine-strength.html
www.vapertrain.com/page/hdics
www.vapehit.co.uk/info.php?articles&articles_id=22
- 7 Legal framework governing medicinal products for human use in the EU. European Commission
- 8 ASH Fact Sheet: Smoking and Disease.
- 9 Royal College of Physicians. Harm reduction in nicotine addiction: helping people who can't quit. A report by the Tobacco Advisory Group of the Royal College of Physicians. London: RCP, 2007.
- 10 Action on Smoking and Health. Beyond Smoking Kills: Protecting Children, Reducing Inequalities. London: ASH, 2008
- 11 British Medical Association. E-cigarettes in public places and workplaces. A briefing from the BMA Occupational Medicine Committee and the Board of Science. London: BMA, 2012
- 12 Hurley S, Jolley D and Kaldor J. Effectiveness of needle-exchange programmes for prevention of HIV infection. *The Lancet* 1997; 349:1797-1800
- 13 Weller, S. A Meta-analysis of condom effectiveness in reducing sexually transmitted HIV. *Soc. Sci. Med.* 1993;36:1635-1644
- 14 Russell M. Low-tar medium-nicotine cigarettes: a new approach to safer smoking. *British Medical Journal* 1976;1:1430-1433
- 15 Tobacco Harm Reduction NICE, 2013
- 16 Draft Abbreviated Advisory of the WHO Study Group on tobacco product regulation. (WHO TobReg) concerning Electronic Nicotine Delivery Systems (ENDS), 2009
- 17 Goniewicz ML, Kuma T, Gawron M, Knysak J, Kosmider L. Nicotine levels in electronic cigarettes. *Nicotine Tob Res* 2013;15:158-66
- 18 Nicotine addiction in Britain. A report of the Tobacco Advisory Group of the Royal College of Physicians. London, RCP, 2000
- 19 Laugesen M. Safety report on the Ruyan® e-cigarette and cartridge. 2008
- 20 Williams M, Villarreal A, Bozhilov K, Lin S, Talbot P. Metal and silicate particles including nanoparticles are present in ECcartomizer fluid and aerosol. *PloS one* 2013;8(3):e57987.
- 21 Goniewicz ML, Knysak J, Gawron M, et al. Levels of selected carcinogens and toxicants in vapour from electronic cigarettes. *Tob Control* 2013;23(2):133–9.
- 22 Kim HJ, Shin HS. Determination of tobacco-specific nitrosamines in replacement liquids of electronic cigarettes by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography A* 2013;1291:48–55.
- 23 Siegel M. Metals in EC Vapor are Below USP Standards for Metals in Inhalation Medications. 2013
- 24 Burstyn I. Peering through the mist: systematic review of what the chemistry of contaminants in electronic cigarettes tells us about health risks. *BMC Public Health* 2014;14(1):18.
- 25 Cahn Z, Siegel M. Electronic cigarettes as a harm reduction strategy for tobacco control: a step forward or a repeat of past mistakes? *J Public Health Policy* 2011;32(1):16–31.
- 26 Goniewicz ML, Gawron J, Jacob P, et al. Electronic cigarettes deliver similar levels of nicotine and reduce exposure to combustion toxicants after switching from tobacco cigarettes. Presented at the 18th annual meeting of the Society for Research on Nicotine and Tobacco, Houston, March 13-16, 2012, 40, NIPA-1
- 27 Westenberger BJ. US Food and Drug Administration: evaluation of e-cigarettes. St Louis, MO: US Food and Drug Administration, Center for Drug Evaluation and Research, Division of Pharmaceutical Analysis. 2009.
- 28 Robertson OH, Loosli CG, Puck TT et al. Tests for the chronic toxicity of propylene glycol and triethylene glycol on monkeys and rats by vapour inhalation and oral administration. *J Pharmacol Exp Ther* 1947; 91: 52–76.
- 29 Electronic cigarettes: A safe substitute? *New Scientist* 11 Feb 2009
- 30 Bullen C, McRobie H, Thornley S, et al. Effect of an electronic cigarette on desire to smoke and withdrawal, user preferences and nicotine delivery: randomized cross-over trial. *Tobacco Control* 2010; 19: 98–103
- 31 Czogala, J., Goniewicz, M. L., Fidelus, B., Zielinska-Danch, W., Travers, M. J., & Sobczak, A. (2013). Secondhand exposure to vapors from electronic cigarettes. *Nicotine & Tobacco Research*, ntt203.
- 32 Hajek P et al. Electronic cigarettes: review of use, content, safety, effects on smokers and potential for harm and benefit. *Addiction* 2014; doi: 10.111/add.12659

- 33 King County bans public e-cigarette smoking. *Seattlepi.com* 15 Dec. 2010
- 34 Wirral pensioner kicked off public transport because of his electronic cigarette. *Wirral News*. 20 July 2012
- 35 Wagener TL, Siegel M, Borelli B. Electronic Cigarettes: Achieving a balanced perspective. *Addiction* 2012; 107: 91545-1548
- 36 YouGov survey. Total sample size was 12,269. Fieldwork was undertaken between 5th and 14th March 2014. All surveys were carried out online. The figures have been weighted and are representative of all GB Adults (aged 18+).
- 37 Foulds J, Veldheer S, & Berg A. Electronic cigarettes (e-cigs): Views of aficionados and clinical/public health perspectives. *Int J Clinical Practice* 2011; 65: 1037–1042
- 38 World Health Organization. Report on the scientific basis of tobacco product regulation: third report of a WHO study group. Geneva, World Health Organization, 2009.
- 39 Bullen, C et al. Electronic cigarettes for smoking cessation: a randomised controlled trial. *The Lancet* 2013; 382: 1629-1637
- 40 Polosa R, Caponnetto P, Morjaria JB. et al. Effect of electronic nicotine delivery device (e-cigarette) on smoking reduction and cessation: a prospective 6-month pilot study. *BMC Public Health* 2011; 11: 786. doi: 10.1186/1471-2458-11-786
- 41 Palazzolo DL. Electronic cigarettes and vaping: a new challenge in clinical medicine and public health. A literature review. *Frontiers in Public Health*. Published online: 18 Nov 2013 doi:10.3389/fpubh.2013.00056
- 42 Vansickel AR, Cobb CO, Weaver MF, Eissenberg TE. A clinical laboratory model for evaluating the acute effects of electronic 'cigarettes': nicotine delivery profile and cardiovascular and subjective effects. *Cancer Epidemiol Biomarkers Prev* 2010; 19: 1945–53
- 43 Foulds J, Veldheer S, & Berg A. Electronic cigarettes (e-cigs): Views of aficionados and clinical/public health perspectives. *Int J Clinical Practice* 2011; 65: 1037–1042
- 44 Trtchounian A, Williams M, & Talbot P. Conventional and electronic cigarettes (e-cigarettes) have different smoking characteristics. *Nic & Tob Research* 2011; 12: 905–912
- 45 Eissenberg T. Electronic nicotine delivery devices: ineffective nicotine delivery and craving suppression after acute administration. *Tobacco Control* 2010; 19: 87–8
- 46 Goniewicz ML, Kuma T, Gawron M, Knysak J, Kosmider L. Nicotine levels in electronic cigarettes. *Nicotine & Tob Res* 2013; 15: 158-66
- 47 Yamin CK, Bitton A, & Bates DW. E-cigarettes: a rapidly growing Internet phenomenon. *Ann Intern Med* 2010; 153: 607–9
- 48 Noel JK, Rees VW, Connolly GN. Electronic cigarettes: a new 'tobacco' industry? *Tob Control* 2011; 20: 81
- 49 Ayers JW, Ribisl KM, Brownstein JS. Tracking the rise in popularity of Electronic Nicotine Delivery Systems (electronic cigarettes) using search query surveillance. *Am J Prev Med* 2011; 40: 448–53
- 50 Dockrell M, Morrison R & McNeill A. E-cigarettes: Prevalence and attitudes in Great Britain. *Nicotine & Tobacco Research* (2013) DOI 10.1093/ntr/ntt057.
- 51 YouGov survey. Fieldwork dates and sample size:

Adults:

March 2010: 2,297 adult smokers
March 2012: 12,436 adults
February 2013: 12,171 adults
March 2014: 12,269 adults

Children:

March 2013: 2,178 children aged 11-18
March 2014: 2,068 children aged 11-18

Surveys were conducted online and results weighted to reflect the British population, as appropriate.

- 52 Calculations were done by ASH applying the proportions of electronic cigarette use by smoking status in the 2014 YouGov survey to the most recent available ONS mid-year GB population estimates (2012).

- 53 Revision of the Tobacco Products Directive. European Commission, March 2014

- 54 See for example:

www.learn.eversmoke.com/nicotine-strength.html [accessed 28 May 2014]

www.vapertrain.com/page/hdics [accessed 28 May 2014]

www.vapehit.co.uk/info.php?articles&articles_id=22 [accessed 28 May 2014]

- 55 Nicoventures Press Release. 12 September 2014

- 56 MHRA Safety information - Nicotine Containing Products

- 57 Fenton, K. E-cigarettes and harm reduction: where are we now and what next? Blog. Public Health England, 21 May 2014

- 58 Bauld, L, de Andrade, M and Angus, K (2014) E-cigarette uptake and marketing: A report commissioned by Public Health England.

- 59 Welsh Government. Public Health White Paper consultation.

- 60 Will you permit or prohibit e-cigarette use on your premises? ASH, 2014

- 61 Electronic nicotine delivery systems: Report by WHO, 2014 .

- 62 Framework Convention Alliance

Article

Comparison of Select Analytes in Exhaled Aerosol from E-Cigarettes with Exhaled Smoke from a Conventional Cigarette and Exhaled Breaths

Gerald A. Long

Lorillard Tobacco Company, P.O. Box 21688, Greensboro, NC 27420, USA;
E-Mail: glong@lortobco.com; Tel.: +1-336-335-6607; Fax: +1-336-335-6640

External Editor: Konstantinos Farsalinos

Received: 21 August 2014; in revised form: 14 October 2014 / Accepted: 16 October 2014 /

Published: 27 October 2014

Abstract: Exhaled aerosols were collected following the use of two leading U.S. commercial electronic cigarettes (e-cigarettes) and a conventional cigarette by human subjects and analyzed for phenolics, carbonyls, water, glycerin and nicotine using a vacuum-assisted filter pad capture system. Exhaled breath blanks were determined for each subject prior to each product use and aerosol collection session. Distribution and mass balance of exhaled e-cigarette aerosol composition was greater than 99.9% water and glycerin, and a small amount (<0.06%) of nicotine. Total phenolic content in exhaled e-cigarette aerosol was not distinguishable from exhaled breath blanks, while total phenolics in exhaled cigarette smoke were significantly greater than in exhaled e-cigarette aerosol and exhaled breaths, averaging 66 µg/session (range 36 to 117 µg/session). The total carbonyls in exhaled e-cigarette aerosols were also not distinguishable from exhaled breaths or room air blanks. Total carbonyls in exhaled cigarette smoke was significantly greater than in exhaled e-cigarette aerosols, exhaled breath and room air blanks, averaging 242 µg/session (range 136 to 352 µg/session). These results indicate that exhaled e-cigarette aerosol does not increase bystander exposure for phenolics and carbonyls above the levels observed in exhaled breaths of air.

Keywords: smoking; vaping; electronic cigarette; e-cigarette; aerosol; carbonyl; phenolic; hydroxybenzene; combustion; nicotine; emission; passive vaping

1. Introduction

Electronic cigarettes (e-cigarettes) are products that became available to United States consumers in about 2007 [1]. Unlike conventional cigarettes that burn tobacco at high temperatures, e-cigarettes contain a liquid flavor solution (e-liquid) that is thermally vaporized by a battery powered heating element. The e-liquids typically contain a mixture of aerosol forming components such as glycerin and propylene glycol, various flavors and, optionally, nicotine. Recently published studies have reported on the constituents of e-liquids and e-cigarette aerosols [2–8]. Some of these constituents are among those listed as Harmful and Potentially Harmful Constituents (HPHC) for tobacco products by the United States Food and Drug Administration (FDA) [9]. Constituents that have been identified in machine-generated e-cigarette aerosols and emissions in enclosed spaces [3,4,6,10], include the carbonyl compounds acetaldehyde, acrolein and formaldehyde [3,6,11,12]. The reported levels of these carbonyl compounds were lower than those of conventional cigarettes smoked under comparable conditions by one to two orders of magnitude.

Riker, *et al.* have advanced the notion that exhaled e-cigarette aerosol may pose an exposure risk to bystanders similar to that of environmental tobacco smoke (ETS) from conventional cigarettes through “passive vaping” [13]. However, the majority (~85%) of ETS aerosol arises from side stream smoke generated during static cigarette smolder in between puffs [14], which is absent for e-cigarettes. Several investigators have reported machine generated e-cigarette aerosol contributions to particulates/droplets and chemical constituents in test chambers [13,15] and indoor environments [5]. All of these studies suggest that exposure to constituents in machine-generated mainstream e-cigarette aerosols would not exceed background, although such studies did not actually use exhaled e-cigarette aerosol from human subjects.

Recent investigations have reported emissions of constituents in closed air chambers or in rooms having minimal ventilation with human subjects using e-cigarettes [15–18]. A study by Romanga, *et al.* in an unventilated room using human subjects failed to detect a number of analytes including nicotine [16], consistent with the sampling and analytical challenges posed by the baseline levels of many of the constituents in e-cigarette aerosols.

A 2013 study by Schripp, *et al.* reported aerosol droplet counts and chemical constituents generated by e-cigarette users, under prescribed puffing parameters, in a room with air exchange [17]. Several compounds, including carbonyls, were detected. However, the authors attributed these levels to the test subjects’ normal metabolic processes and not to the exhaled e-cigarette aerosols.

A recent study with nine e-cigarette users puffing *ad libitum* in a room with air exchange found propylene glycol, glycerin and nicotine in the room air [18]. No increases above background were noted for formaldehyde, acetone or acrolein.

These studies have explored the potential for bystander exposure from e-cigarettes, but that have not adequately addressed the chemical composition of exhaled e-cigarette aerosol. A simple mass balance and distribution of known constituents such as water, glycerin and nicotine has not been reported for exhaled e-cigarette aerosol. The quantities of constituents such as phenolics and carbonyls in exhaled cigarette smoke relative to exhaled e-cigarette aerosol, and to a suitable blank of exhaled breaths of air is also lacking in the scientific literature. The present study addressed these gaps with direct analyses of the quantities of phenolic and carbonyl compounds in the exhaled aerosols from human subjects using cigarettes and e-cigarettes without any dilution effects due to room volume or air exchange and determined

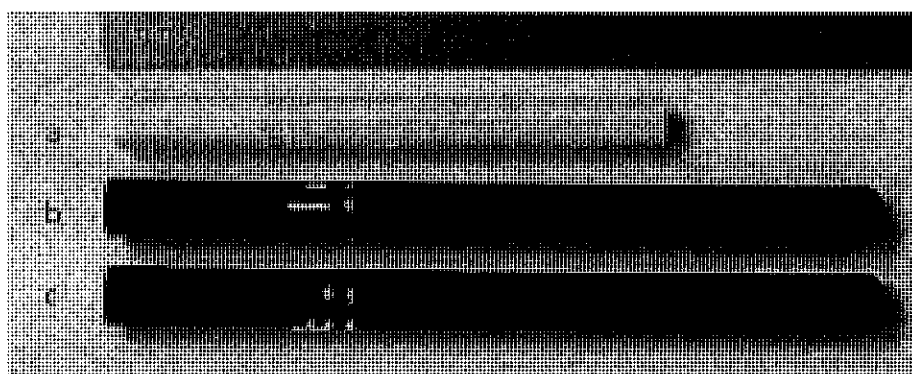
mass balance and distribution of water, glycerin and nicotine in exhaled e-cigarette aerosols. These data were compared with baseline levels in exhaled breath blanks to place the findings in the context of the known and common presence of some chemical constituents in indoor environments [19–22]. The analytical methodologies used in this study have been applied to collection and measurement of constituents in exhaled cigarette aerosols [23–27] and have been adapted to measure levels of phenolics and carbonyls in exhaled e-cigarette aerosols.

2. Experimental Section

2.1. Materials

The conventional cigarette and the two e-cigarettes used in this study were all products with significant U.S. market shares in their respective categories. The products used in this study are shown in Figure 1.

Figure 1. The three study products: (a) Marlboro Gold Box, 85 mm conventional cigarette (MGB); (b) blu Classic Tobacco Disposable (blu CTD); (c) blu Magnificent Menthol Disposable (blu MMD).



The Marlboro Gold King Box filtered cigarette (MGB), which is the largest-selling brand in the U.S. was selected to represent the conventional cigarette category (Philip Morris USA, Miami, FL, USA) [28]. The blu eCigs Classic Tobacco Disposable (blu CTD) and blu eCigs Magnificent Menthol Disposable (blu MMD) electronic cigarettes were selected to represent the e-cigarette category (Charlotte, NC, USA), representing the U.S. market leaders for this product category. The MGB sample was obtained from a commercial wholesaler (Reidsville Grocery Company, 1624 Freeway Dr., Reidsville, NC, USA). The e-cigarette products were obtained directly from the manufacturer.

Both of the disposable e-cigarette products utilize a flow activation design whereby the heating circuit is activated only during puffing. Both e-cigarette products utilize glycerin as the aerosolizing agent and are labeled as containing nicotine (20–24 mg/e-cigarette). Compositions of the e-liquids were 82% glycerin, 9% water, 2% nicotine and 7% flavor for blu CTD; 75% glycerin, 18% water, 2% nicotine and 5% flavor for blu MMD [29]. The e-liquid loadings were 1.03 g and 1.00 g for blu CTD and blu MMD, respectively. Both e-cigarettes utilize 3.7 V batteries, 3.0 Ω atomizers, and both products are designed to deliver approximately 400 puffs.

All three samples were representative of commercially available consumer products at the time of the study. Exhaled aerosols from each of the products were captured on glass fiber filter pads. In addition to the exhaled aerosol from products, exhaled breath blanks were used to establish baseline values for the exhaled cigarette smoke and exhaled e-cigarette aerosol comparisons. Blanks were obtained from each subject prior to the exhaled aerosol sessions by collecting their exhaled breaths.

2.2. Experimental Design

This study involved collection of exhaled aerosol from human subjects using conventional cigarettes and e-cigarettes. The experiments were conducted under an IRB-approved protocol (Quorum IRB, 1501 Fourth Ave., Suite 800, Seattle, WA, USA). Subject recruiting was performed by Eastcoast Research (Eastcoast Research, 1118 Grecale St., Greensboro, NC, USA). All sessions were conducted in a 40 m³ conference room at the Eastcoast Research facility. Subjects were screened for age ($21 \leq \text{age} \leq 54$), product use (e-cigarette subject puffs ≥ 30 puffs/day; conventional cigarettes >20 cigarettes/day), product preference (MGB, blu CTD or blu MMD) and for a stable preference for the specified products (≥ 6 months). All subjects were required to abstain from any tobacco product use for a minimum of one hour prior to the collection sessions. Exhaled carbon monoxide levels were verified for the subjects prior to each session with a piCO+ Smokerlyzer (Bedfont Scientific Ltd., Station Road, Harrietsham, Maidstone, Kent ME17 1JA, England) and were required to be less than 10 ppm to participate in the sessions. A total of thirty subjects were recruited for the study—ten subjects for each of the three products.

The three analyte classes (major components, phenolics and carbonyls) studied in this work are listed in Table 1 along with the individual analytes. The major components were selected to provide a mass balance distribution of water, glycerin and nicotine in exhalants from the three products. Some carbonyls have been reported in machine deliveries from e-cigarettes although at levels ten to hundreds of times less than in mainstream cigarette smoke [3,6,11,12]. A recent literature summary of e-cigarette chemical analysis also suggested the presence of *o,m,p*-cresols in the headspace of a single product [30]. Therefore, this work will also establish the levels of carbonyls and phenolics in exhaled aerosols from the cigarette, e-cigarettes and exhaled breaths.

Table 1. A listing of the three classes of analytes—major components, phenolic and carbonyl and individual analytes measured in this study.

Analyte Class	Analyte
Major Components	Water
	Glycerin
	Nicotine
Phenolics	Hydroquinone
	Resorcinol
	Catechol
	Phenol
	<i>m,p</i> -Cresol
	<i>o</i> -Cresol

Table 1. Cont.

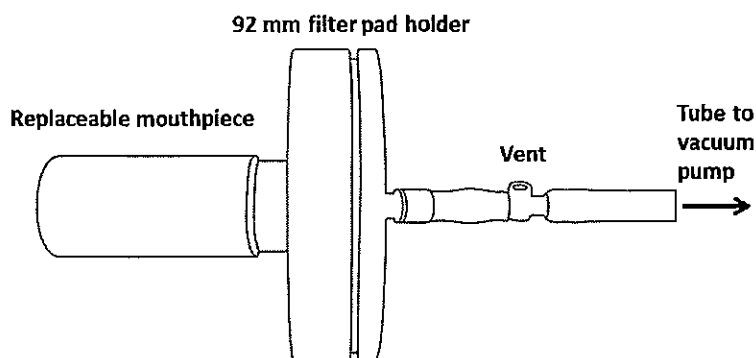
Analyte Class	Analyte
Carbonyls	Formaldehyde
	Acetaldehyde
	Acetone
	Acrolein
	Propionaldehyde
	Crotonaldehyde
	Methylethylketone
	Butyraldehyde

Total particulate matter, TPM, for three MGB cigarettes and 99 puffs from the two e-cigarettes were all approximately 150 mg under an intense puffing regime [29] and served as the basis for the puffing arrangement in this study. Cigarette subjects used three cigarettes per session and e-cigarette subjects used a maximum of 99 puffs per session. Each subject used their preferred product in a total of nine sessions which provided three replicates per subject in the three analyte classes. Sessions were limited to a maximum of two hours in duration.

2.3. Exhaled Collection Method Summary

This research utilizes modified ISO 17025 accredited conventional cigarette smoke analysis methods to quantitate select analytes in the exhaled aerosols from cigarettes and e-cigarettes. The vacuum-assisted collection system employed in the present work has been previously described [23–26] and used to quantify a number of different analytes in the exhaled smoke from conventional cigarettes. The system utilizes 92 mm glass fiber filter pads that have greater than 99% efficiency in retaining aerosols in the size range of cigarette smoke, with calibrated vacuum assistance to permit collection of exhaled samples in a manner that is perceived by subjects as neutral in terms of the effort required to deliver exhalate into the collection system. A schematic of the collection system is shown in Figure 2.

Figure 2. Schematic of the vacuum-assisted collection system for exhaled samples. The single pad collection was used for analysis of phenolics and major components. The apparatus used for the collection of carbonyls included a second filter holder of identical dimensions in series with the first.



The system incorporates a replaceable mouthpiece into which subjects exhale aerosol or breaths. The vacuum pumps were calibrated daily to aspirate 200 mL/min. The tube connecting the pad holder to the vacuum pump was vented to prevent aspiration through the pads when the subjects were not exhaling into the collection system. Subjects covered the vent with a finger when exhaling into the system and then uncovered the vent between exhaled puffs or breaths. A variation of the collection system in Figure 1 was used in carbonyl sessions. Two filter pads arranged in series and treated with a 2,4-dinitrophenylhydrazine (DNPH) solution were used for carbonyl collection sessions to increase sensitivity for these compounds.

2.3.1. Exhaled Breath Blank Collections

Blanks for each participant were collected at the beginning of each session prior to collection of exhaled aerosol from the products. These blanks were performed to obtain baseline levels of analytes in their exhaled breath prior to collection of exhalates from the products. Blanks were collected by instructing the subjects to exhale normal breaths into the vacuum assisted collection system over a twenty-minute period—a maximum of 30 exhaled breaths for cigarette sessions and a maximum of 99 exhaled breaths for e-cigarette sessions.

2.3.2. Carbonyl Room Air Blank Collections

In addition to exhaled breath blanks, a single replicate of room air was sampled with the collection system during each carbonyl session. Carbonyls have been observed in indoor air at levels in excess of $100 \mu\text{g}/\text{m}^3$ [19–22]. Room air background levels of carbonyls were collected in the occupied conference room prior to carbonyl exhaled cigarette and e-cigarette usage sessions. Room air blanks were generated by pulling room air through DNPH treated pads with the vacuum-assisted collection system for 30 simulated exhaled puffs during cigarette sessions and 99 simulated exhaled puffs during e-cigarette sessions. The simulated exhaled puff duration for room air blanks was 2–3 sec.

After completion of the exhaled breath collections, pad holders with new pads were inserted into the collection system and the respective products presented to the subjects. Cigarette smokers were presented with an unopened pack at the beginning of each session and instructed to light their cigarettes, puff normally and exhale their smoke into the collection systems. Similarly, after e-cigarette subjects completing their exhaled breath collections, each subject received a new e-cigarette for the session. Subjects were instructed to take one test puff to verify nominal operation of their test products, puff normally and exhale their aerosol into the collection systems. Pad holders were capped upon completion of the collections and subjected to work-up within 40–60 min.

2.3.3. Analytical Method Capabilities Summary

ISO 17025 methods for cigarette mainstream smoke were verified for use with exhaled aerosol matrices from cigarettes and e-cigarettes. Cartridge-based collections were investigated for carbonyls, but were not suitable for exhaled aerosol collections due to their high resistance to air flow and observed break through during method development. Exhaled aerosol method verification involved spiking and

recovery experiments over the response ranges with an emphasis on accuracy and precision at the method limits of quantitation.

A summary of capabilities for the exhaled aerosol methods for e-cigarettes is provided in Table 2 as detection limits, quantitation limits, accuracy and precision. The limit of detection (LOD), is defined as the lowest quantity of an analyte that can be distinguished from the background matrix. The limit of quantitation (LOQ), is the level above which quantitative results may be obtained for an analyte with 99% confidence. Instrument parameters and additional method information for phenolics, carbonyls, glycerin, nicotine and water analyses are available as supplementary materials (Supplemental Files).

Table 2. Exhaled aerosol analysis capabilities for major components, phenolics and carbonyls in e-cigarette samples.

Analyte		LOD	LOQ	Accuracy (%)	Precision (%)
Major Components	Nicotine	0.69	4.86	108	2
	Glycerin	0.0059	1.51	101	2
	Water	ND	31	99	0
Phenolics	Hydroquinone	0.37	2.00	113	2
	Resorcinol	0.06	0.40	109	2
	Catechol	0.47	2.00	114	2
	Phenol	0.09	0.32	108	2
	<i>m,p</i> -Cresol	0.60	4.00	110	2
	<i>o</i> -Cresol	0.16	1.00	113	1
Carbonyls	Formaldehyde	0.10	12.45	97	0
	Acetaldehyde	0.39	5.20	96	1
	Acetone	0.61	13.64	96	3
	Acrolein	0.13	12.34	97	0
	Propionaldehyde	0.21	1.89	98	2
	Crotonaldehyde	0.21	2.17	95	1
	Methylethylketone	0.24	2.06	97	2
	Butyraldehyde	0.18	5.30	95	1

Notes: All units are $\mu\text{g}/\text{session}$ except glycerin and water ($\text{mg}/\text{session}$). ND—LOD for water was not determined.

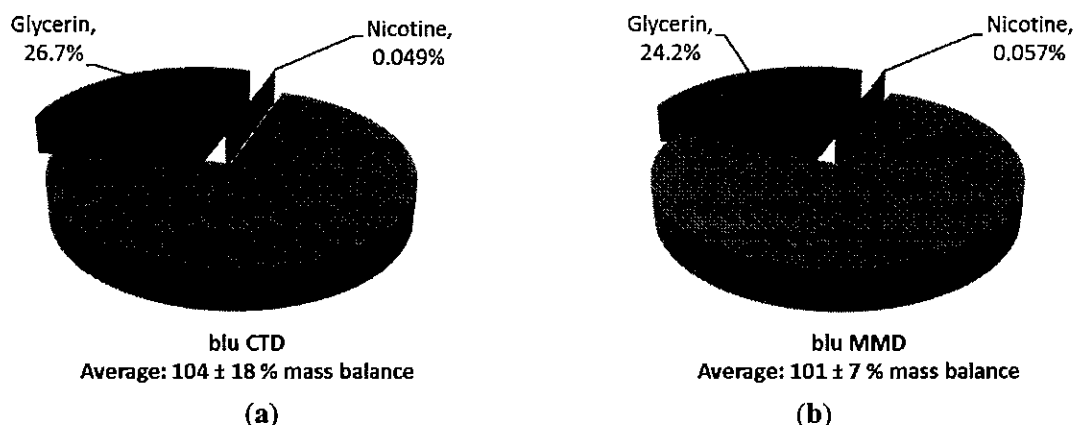
3. Results and Discussion

3.1. Exhaled Aerosol Mass Balance Distribution of Water, Glycerin and Nicotine

The average number of exhaled puffs collected during the water, glycerin and nicotine, phenolic and carbonyl collection sessions were not significantly different between methods as determined by an ANOVA analysis. The average number of exhaled puffs was 30 for three cigarettes and 95 for e-cigarettes during the water, glycerin and nicotine collection sessions.

Nicotine, glycerin and water analysis were used to compare distribution and mass balance of these analytes in exhaled aerosols. Distribution is determined by measuring the amounts of these compounds in exhalate collection sessions for the three products and then dividing by the sum total of the three constituents. The average distributions of exhaled e-cigarette aerosols are shown in Figure 3.

Figure 3. Average distributions and mass balances of water, glycerin and nicotine in exhaled e-cigarette aerosols for (a) blu Classic Tobacco Disposable (blu CTD) and (b) blu Magnificent Menthol Disposable (blu MMD).



The exhaled aerosol mass from the two e-cigarettes is primarily water and glycerin, which together comprise greater than 99.9% of the collected aerosol distribution. Average mass balances for water, glycerin and nicotine were fully accounted for in the e-cigarette aerosols at 104% and 101%. Machine-generated mainstream from e-cigarettes contain approximately 86% glycerin and 8% water [29], which is similar to the e-liquid composition itself. The high concentration of water in the exhaled e-cigarette aerosol has been attributed to water accretion from the respiratory tract by the hydrophilic glycerin aerosol [31].

Average mass balance for nicotine, glycerin and water in exhaled aerosol from the conventional cigarette was (83% ± 21%). The remaining exhaled aerosol mass for cigarettes samples are attributed to particulates from combustion processes known to comprise more than 70% of mainstream conventional cigarette smoke [32,33]. The concentration of nicotine observed in exhaled cigarette smoke was approximately an order of magnitude higher than in the exhaled e-cigarette aerosols (~0.40% vs. ~0.05%, respectively). Furthermore, the great majority (~85%) of real-world bystander exposures to nicotine and other smoke constituents in smoking environments is derived from the sidestream smoke emitted from the smoldering cigarette rather than from smokers' exhaled breaths [14]. Since e-cigarettes do not produce such sidestream emissions, the reductions in most potential bystander chemical exposures that accompany indoor e-cigarette usage as opposed to smoking may be anticipated to be even greater than the differences in exhaled nicotine concentrations of the very different aerosols. The public health impacts of environmental tobacco smoke have been overwhelmingly attributed to chemical constituents other than nicotine, so the simple presence of some nicotine in the exhalate of e-cigarette users does not suggest a basis for concern about bystander exposures.

3.2. Exhaled Phenolics and Carbonyls

The majority of phenolic and carbonyl measurements in exhaled e-cigarette aerosols were either not detectable, below the detection limits or below the quantitation limits. However, these analytes were consistently observed in exhaled cigarette smoke at quantifiable levels. Example data are shown in Table 3 for hydroquinone and acetaldehyde.

Table 3. Hydroquinone and acetaldehyde in exhaled aerosol ($\mu\text{g}/\text{session}$) for Marlboro Gold Box (MGB), blu Classic Tobacco Disposable (blu CTD) and blu Magnificent Menthol Disposable (blu MMD).

MGB			Blu CTD			Blu MMD		
Subject	Acetaldehyde	Hydroquinone	Subject	Acetaldehyde	Hydroquinone	Subject	Acetaldehyde	Hydroquinone
1	227.6	70.6	11	<LOQ	<LOD	21	16.7	<LOD
	186.0	60.0		<LOQ	<LOD		35.3	<LOD
	221.0	69.1		<LOQ	<LOD		38.9	<LOD
2	134.7	41.3	12	<LOQ	<LOD	22	<LOQ	<LOD
	129.8	33.2		<LOQ	<LOD		<LOQ	<LOD
	107.7	31.9		<LOQ	<LOD		<LOQ	<LOD
3	131.2	32.2	13	<LOQ	<LOD	23	<LOQ	<LOD
	169.0	47.4		86.4	<LOD		<LOQ	<LOD
	128.1	52.5		44.2	<LOD		<LOQ	<LOD
4	115.6	48.5	14	<LOQ	<LOD	24	5.4	<LOD
	119.3	47.3		<LOQ	<LOD		7.2	<LOD
	124.1	42.5		<LOQ	<LOD		9.9	<LOD
5	195.4	18.4	15	<LOQ	<LOD	25	<LOQ	<LOD
	122.0	13.3		<LOQ	<LOD		<LOQ	<LOD
	196.3	20.0		<LOQ	<LOD		<LOQ	<LOD
6	208.0	99.5	16	<LOQ	<LOD	26	<LOQ	<LOD
	116.9	103.5		<LOQ	<LOD		<LOQ	<LOD
	116.0	83.9		<LOQ	<LOD		<LOQ	<LOD
7	<LOQ	22.8	17	<LOQ	<LOD	27	<LOQ	<LOD
	88.1	8.79		<LOQ	<LOD		<LOQ	<LOD
	48.1	25.9		<LOQ	<LOD		6.2	<LOD
8	380.2	29.1	18	<LOD	<LOD	28	<LOQ	<LOD
	193.7	37.7		24.2	<LOD		<LOQ	<LOD
	189.7	30.9		<LOQ	<LOD		7.1	<LOD
9	285.2	73.0	19	<LOQ	<LOD	29	6.5	<LOD
	126.6	26.8		<LOQ	<LOD		8.9	<LOD
	104.6	81.6		<LOQ	<LOD		7.6	<LOD
10	217.6	43.0	20	6.9	<LOD	30	<LOQ	<LOD
	162.7	46.2		<LOQ	<LOD		<LOQ	<LOD
	114.1	64.0		<LOQ	<LOQ		5.4	<LOD
Avg *	156.7	46.8		<9.73 *	<0.421 *		<8.29 *	<0.367 *
SD	68.8	24.7		16.5	0.3		8.2	0.0
LOQ	41.6	2.00		5.20	2.00		5.20	2.00
LOD	0.390	0.367		0.390	0.367		0.390	0.367

Note: * LOD and LOQ values were averaged to provide upper limit estimates in exhalates from the two e-cigarette samples.

To simplify data reporting, total phenolic compounds and total carbonyl compounds in exhaled aerosols are presented for each product, along with exhaled breath blanks for comparison. Upper-limit estimates for exhaled aerosol compositions are accomplished by using the method limits for observations below the limits of detection and quantitation. In cases where individual measurements

were less than the limits of quantitation, the limit of quantitation values were used and in cases where the measurements were non-detects or less than the limits of detection, the limit of detection values were used to compare analytes in exhaled aerosol between products. ANOVA comparisons were performed to test for differences between exhaled aerosol samples, breath blanks and room air ($\alpha = 0.05$).

Total exhaled phenolics are shown in Figure 4 for exhaled aerosol and breaths collected following use of each product. The average number of exhaled puffs was 29 for three cigarettes and 98 for e-cigarettes during the phenolics collection sessions. Phenolics in exhaled breath blanks were all below limits of quantitation or limits of detection for the three products tested. The average total phenolics in exhaled e-cigarette aerosols were not statistically different than in exhaled breaths. In contrast, the average total phenolic compounds in exhaled smoke for cigarette subjects averaged 66 $\mu\text{g}/\text{session}$ and ranged from 36 to 117 $\mu\text{g}/\text{session}$, significantly greater than in exhaled e-cigarette aerosol or exhaled breaths. The total phenolics for the ten MGB subjects is comparable, although higher, than data reported by Moldoveanu [23] for the phenolic compounds reported here, (12.3 $\mu\text{g}/3$ cigs, range 6–25 $\mu\text{g}/3$ cigs).

Figure 4. Total exhaled phenolics for exhaled aerosol and breaths for Marlboro Gold Box (MGB), blu Classic Tobacco Disposable (blu CTD) and blu Magnificent Menthol Disposable (blu MMD).

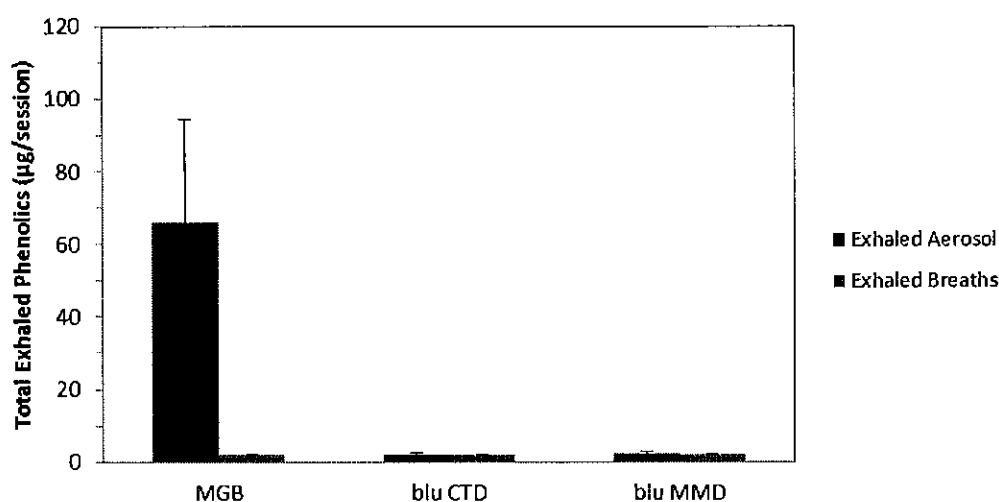


Figure 5 summarizes total carbonyl compounds exhaled from each product, exhaled breaths and room blanks. The average number of exhaled puffs was 27 for three cigarettes and 98 for e-cigarettes during the carbonyl collection sessions. Carbonyls in room air blanks and exhaled breath blanks were observed at the levels of quantitation due to the pervasive nature of carbonyls in indoor environments [20–23]. Room air blanks, exhaled breath blanks and exhalates from the two e-cigarettes were not statistically different. And as a result, total carbonyls in exhalates from the two e-cigarettes were not distinguishable from exhaled breaths or room air blanks. However, total carbonyls in exhaled smoke from cigarettes were significantly greater than the total carbonyls in exhaled e-cigarette aerosols, exhaled breaths and room blanks (average 242 $\mu\text{g}/\text{session}$, range 136–352 $\mu\text{g}/\text{session}$). The total carbonyls for the ten MGB subjects is comparable to historical data from Moldoveanu [24], for the carbonyls reported here, (average 183 $\mu\text{g}/3$ cigs, range 122–309 $\mu\text{g}/3$ cigs).

The absence of carbonyls and phenolics at quantifiable levels in exhaled e-cigarette aerosols is also demonstrated by comparing acetaldehyde and hydroquinone, as examples, for exhaled aerosol from products, breath blanks and room air as shown in Table 4. The sample aerosol values for the e-cigarettes are not statistically different than breath blanks, or room blanks.

Figure 5. Total carbonyls in exhaled aerosol, breaths and room blanks for Marlboro Gold Box (MGB), blu Classic Tobacco Disposable (blu CTD) and blu Magnificent Menthol Disposable (blu MMD).

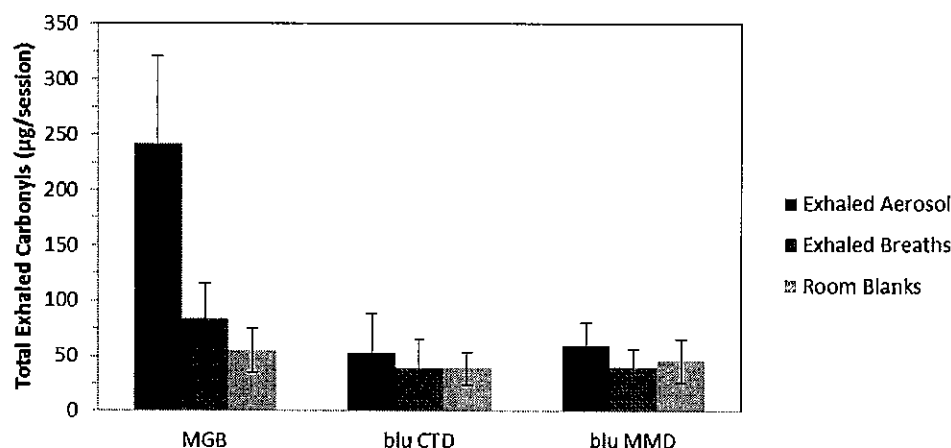


Table 4. Hydroquinone and acetaldehyde in exhaled aerosol, breaths and room air (µg/session) for blu Classic Tobacco Disposable (blu CTD) and blu Magnificent Menthol Disposable (blu MMD).

Analyte		Blu CTD			Blu MMD		
		Aerosol	Breaths	Air	Aerosol	Breaths	Air
Hydroquinone	Mean	<0.421 *	<0.367 *	ND	<0.367 *	<0.367 *	ND
	SD	0.3	0.0	ND	0.0	0.0	ND
Acetaldehyde	Mean	<9.73 *	<9.58 *	<3.60 *	<8.29 *	<5.20 *	<5.20 *
	SD	16.5	16.0	2.3	8.2	0.0	0.0

Note: * LOD and LOQ values were averaged to provide upper limit estimates in the aerosol, breath and air samples. ND—Room air blanks were not determined for phenolics.

Recent work by Robinson, *et al.* characterized the potential for second-hand e-cigarette exposure in indoor air from human subjects using validated air sampling methods (ASTM, EPA, NIOSH and OSHA) for 34 HPHC analytes [34]. Carbonyls and phenolics were no different than background levels in the room when the study subjects used e-cigarettes. Carbonyls were significantly greater than background when conventional cigarettes were smoked. Phenolics were no different than background for conventional cigarettes. Combustion byproducts were not observed above background for e-cigarettes but were present during conventional cigarette use.

The findings of this study establish the substantial reduction in the complexity and quantities of select chemical constituents in exhaled aerosols from e-cigarettes relative to exhaled smoke from conventional cigarettes. These constituents are expected in mainstream and exhaled conventional cigarette smoke as

demonstrated in this study and in extant literature since their formation is a result of combustion and pyrolysis processes. However, the thermal vaporization mode of operation common to e-cigarette designs does not provide a combustion formation pathway for those analytes. Whereas the present work has focused on the smaller, cigarette-like devices that have historically been market leaders in the U.S., the operation of these devices is fundamentally very similar to that of the larger, tank-style products that are increasingly favored by vapers in the U.S. and elsewhere around the world. The emerging technical literature in this area is consistent with an expectation that similarities in emitted and exhaled aerosols across the spectrum of innovative new e-cigarette designs will continue to demonstrate markedly reduced exposures to both users and bystanders relative to those that occur from conventional cigarette smoking.

4. Conclusions

This study was designed to measure phenolics and carbonyls in exhaled cigarette smoke, exhaled e-cigarette aerosols and exhaled breaths using a vacuum-assisted, pad collection system. This collection system was also used to determine a mass balance and distribution for water, glycerin and nicotine in exhaled e-cigarette aerosol. Distribution of exhaled e-cigarette aerosol showed the composition was greater than 99.9% water and glycerin, a small amount of nicotine (<0.06%) and gave a quantitative mass balance for these analytes in the exhaled aerosol mass, (101%–104%). Exhaled aerosol collections from e-cigarettes averaged over three times more exhaled puffs than from the conventional cigarettes. Total phenolics in exhaled e-cigarette aerosol were not significantly different than the amounts observed in exhaled breaths. Total phenolics in exhaled cigarette smoke were greater than in exhaled breaths and averaged 66 µg/session for the test subjects. Similar results were observed for carbonyl compounds in exhaled aerosols. Total carbonyls in exhaled e-cigarette aerosol were not significantly different than those in exhaled breaths and room air blanks. Carbonyls in exhaled cigarette smoke were greater than in exhaled breaths, room air blanks and exhaled e-cigarette aerosols, with an average total carbonyl content of 242 µg/session for the cigarette test subjects. Exhaled phenolics and carbonyls in cigarette smoke were comparable to historical data, although higher for the phenolics class in the present study than in prior work. The findings of this work suggest that exhaled e-cigarette aerosol does not increase bystander exposure for phenolics and carbonyls above the levels observed in exhaled breaths of air, in contrast to the quantifiable levels of these analytes in exhaled conventional cigarette smoke.

Acknowledgments

The author would like to thank the analytical testing laboratories at Lorillard Tobacco Company for methods development and testing, Eastcoast Research for support during the recruiting and data collection phases of the project and Phil Stern, Carl D’Ruiz; and Steven Brown, Dan Heck, Edward Robinson, and Robert Stevens for technical discussions.

Conflicts of Interest

The author is employed by Lorillard, a manufacturer of conventional cigarettes and the parent company of the manufacturer of the e-cigarette products used in this study.

References

1. Regan, A.K.; Promoff, G.; Dube, S.R.; Arrazola, R. Electronic nicotine delivery systems: Adult use and awareness of the “e-cigarette” in the USA. *Tob. Control* **2013**, *22*, 19–23.
2. Laugesen, M. *Safety Report on the Ruyan® E-cigarette Cartridge and Inhaled Aerosol*; Public Health Medicine Registrar, Auckland District Health Board: Auckland, New Zealand, 2008.
3. Laugesen, M. *Poster 5–11*; Society for Research on Nicotine and Tobacco (SRNT): Dublin, Ireland, 2009.
4. Cahn, Z.; Siegel, M. Electronic cigarettes as a harm reduction strategy for tobacco control: A step forward or a repeat of past mistakes? *J. Public Health Policy* **2010**, doi:10.1057/jphp.2010.41.
5. Pellegrino, R.M.; Tinghino, B.; Mangiaracina, G.; Marani, A.; Vitali, M.; Protano, C.; Osborn, J.F.; Cattaruzza, M.S. Electronic cigarettes: An evaluation of exposure to chemicals and fine particulate matter (PM). *Ann. Ig.* **2012**, *24*, 279–288.
6. Goniewicz, M.L.; Knysak, J.; Gawron, M.; Kosmider, L.; Sobczak, A.; Kurek, J.; Prokopowicz, A.; Jablonska-Czapla, M.; Rosik-Dulewska, C.; Havel, C. Levels of selected carcinogens and toxicants in vapour from electronic cigarettes. *Tob. Control* **2013**, doi:10.1136/tobaccocontrol-2012-050859.
7. Goniewicz, M.L.; Kuma, T.; Gawron, M.; Knysak, J.; Kosmider, L. Nicotine levels in electronic cigarettes. *Nicotine Tob. Res.* **2012**, *1*, 158–166.
8. Goniewicz, M.L.; Hajek, P.; McRobbie, H. Nicotine content of electronic cigarettes, its release in vapour and its consistency across batches: Regulatory implications. *Addiction* **2014**, *109*, 341–351.
9. *U.S. Federal Register*, No. 64; U.S. Government Federal Register: Washington, D.C., USA, 2012; Volume 77, pp. 20034–20037.
10. Lauterbach, J.H.; Laugesen, M. *Comparison of Toxicant Levels in Mainstream Aerosols Generated by Ruyan Electronic Nicotine Delivery Systems (ENDS) and Conventional Cigarette Products*; Society of Toxicology Poster: San Francisco, CA, USA, 2012.
11. Uchiyama, S.; Inaba, Y.; Kunugita, N. Determination of acrolein and other carbonyls in cigarette smoke using coupled silica cartridges impregnated with hydroquinone and 2,4-dinitrophenylhydrazine. *J. Chromatogr. A* **2010**, *1217*, 4383–4388.
12. McAuley, T.R.; Hopke, P.K.; Zhao, J.; Babaian, S. Comparison of the effects of e-cigarette vapor and cigarette smoke on indoor air quality. *Inhal. Toxicol.* **2012**, *24*, 850–857.
13. Riker, C.A.; Lee, K.; Darville, A.; Hahn, E. E-cigarettes: Promise or peril? *J. Nurs. Clin. North Am.* **2012**, *47*, 159–171.
14. Guerin, M.R.; Jenkins, R.A.; Tomkins, B.A. *The Chemistry of Environmental Tobacco Smoke: Composition and Measurement*; Lewis: Chelsea, MI, USA, 1992; pp. 41–55.
15. Czogala, J.; Goniewicz, M.L.; Fidelus, B.; Zielinska-Danch, W.; Sobczak, A. Assessment of Passive Exposure to Aerosol from Electronic Cigarettes. In Proceedings of the Society for Research on Nicotine and Tobacco (SRNT) Conference, Boston, MA, USA, 13–16 March 2013.
16. Romagna, G.; Zabarini, L.; Barbiero, L.; Bocchietto, E.; Todeschi, S.; Caravati, E.; Voster, D.; Farsalinos, K. Characterization of Chemicals Released to the Environment by Electronic Cigarettes Use (ClearStream-AIR Project): Is Passive Vaping a Reality? In Proceedings of the XIV Annual Meeting of the Society for Research on Nicotine and Tobacco, Helsinki, Finland, 30 August 2012.

17. Schripp, T.; Markewitz, D.; Uhde, E.; Salthammer, T. Does e-cigarette consumption cause passive vaping? *Indoor Air* **2013**, *23*, 25–31.
18. Schober, W.; Szendrei, K.; Matzen, W.; Osiander-Fuchs, H.; Heitmann, D.; Schettgen, T.; Jörres, R.A.; Fromme, H. Use of electronic cigarettes (e-cigarettes) impairs indoor air quality and increases FeNO levels of e-cigarette consumers. *Int. J. Hyg. Environ. Health* **2013**, *217*, 628–637.
19. Sarigiannis, D.A.; Karakitsios, S.P.; Gotti, A.; Liakos, L.L.; Katsoyiannis, A. Exposure to major volatile organic compounds and carbonyls in European indoor environments and associated health risk. *Environ. Int.* **2011**, *37*, 743–765.
20. Geiss, O.; Giannopoulos, G.; Tirendi, S.; Barrero-Moreno, J.; Larsen, B.R.; Kotzias, D. The AIRMEX study—VOC measurements in public buildings and schools/kindergartens in eleven European cities: Statistical analysis of the data. *Atmos. Environ.* **2011**, *45*, 3676–3684.
21. Reiss, R.; Ryan, P.B.; Tibbetts, S.J.; Koutrakis, P. Measurement of organic acids, aldehydes, and ketones in residential environments and their relation to ozone. *J. Air Waste Manage. Assoc.* **1995**, doi:10.1080/10473289.1995.10467411.
22. Liu, K.S.; Huang, F.Y.; Hayward, S.B.; Wesolowski, J.; Sexton, K. Irritant effects of formaldehyde Exposure in mobile homes. *Environ. Health Perspect.* **1991**, *94*, 91–94.
23. Moldoveanu, S.; Coleman, W.; Wilkin, J.; Reynolds, R.J. Determination of hydroxybenzenes in exhaled cigarette smoke. *Beitr. Tabakforschung Int.* **2008**, *23*, 98–106.
24. Moldoveanu, S.; Coleman, W.; Wilkin, J. Determination of carbonyls in exhaled cigarette smoke. *Beitr. Tabakforschung Int.* **2007**, *22*, 346–357.
25. Moldoveanu, S.; Coleman, W.; Wilkin, J. Determination of benzene and toluene in exhaled cigarette smoke. *Beitr. Tabakforschung Int.* **2008**, *23*, 106–114.
26. Moldoveanu, S.; Coleman, W.; Wilkin, J. Determination of polycyclic aromatic hydrocarbons in exhaled cigarette smoke. *Beitr. Tabakforschung Int.* **2008**, *23*, 85–97.
27. Fenk, S.; Plunkett, S.E.; Lam, K.; Kapur, S.; Muhammad, R.; Jin, Y.; Zimmerman, M.; Mendes, P.; Kinserand, R.; Roethig, H. A new method for estimating the retention of selected smoke constituents in the respiratory tract of smokers during cigarette smoking, inhalation. *Toxicology* **2006**, *19*, 169–179.
28. Maxwell, J.C. *The Maxwell Report: Year End & Fourth Quarter 2011 Sales Estimates for the Cigarette Industry*; Maxwell, J.C., Jr., Ed.; UCSF Library: Richmond, VA, USA, 2012.
29. Tayyarah, R.; Long, G.A. Comparison of select analytes in aerosol from e-cigarettes with smoke from a conventional cigarette and with ambient air. *Regul. Toxicol. Pharmacol.* **2014**, in press, doi: 10.1016/j.yrtph.2014.10.010.
30. Cheng, T. Chemical evaluation of electronic cigarettes. *Tob. Control* **2014**, *23*, doi:10.1136/tobaccocontrol-2013-051482.
31. Cabot, R.; Koc, A.; Yurteri, C.U.; McAughey, J. Aerosol Characterization of E-Cigarettes. In Proceedings of the European Aerosol Conference, Prague, Czech, 1–6 September 2013.
32. *Eclipse—A Cigarette that Primarily Heats, rather than Burns Tobacco, Summary of Scientific Tests*; RJ Reynolds Tobacco Company: Winston-Salem, NC, USA, 2000.
33. *Chemical and Biological Studies on New Cigarette Prototypes that Heat Instead of Burn Tobacco*; RJ Reynolds Tobacco Company: Winston-Salem, NC, USA, 1988; pp. 134–135.

34. Robinson, E.A.; Brown, S.E.; Leverette, R.D.; Misra, M. Evaluation of the potential for second-hand exposure to e-cigarette aerosol in an office environment: Comparison with tobacco cigarette and scented candle. *Int. J. Environ. Res. Public Health* **2014**, in press.

© 2014 by the author; licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution license (<http://creativecommons.org/licenses/by/4.0/>).

To Whom it may concern:

Enclosed are various testimonials from people about why vaping/e-ciggs should not be consider as a tobacco product or be in the same category as tobacco and how vaping has helped them and others change their lives.

To whom it may ~~concern~~ concern:

○ I'm not a long time smoker but I have smoked for a year in 2013. I started smoking because it had helped me calm down due to stressful life and I know it wasn't the best decision but it helped. I have asthma and one of my friends turned me into vaping beginning of 2014 and this month marks one year for me and I haven't touch a cigarette since ~~then~~ then. I feel so much better. haven't had an asthma flare ups or going to the E.R. due to an attack. I also work at an ~~EVN~~ E-Cig establishment and helped a lot of smoker ~~a~~ quit smoking and they always come back telling me how much vaping makes them feel better than smoking. I like to help people help themselves to be healthier and it makes me feel ^{good} ~~better~~ ~~the~~ knowing that I can put an impact on their daily lives. We have a very good vaping community helping others to quit and put an impact on each other's lives. and I think this is a better way to help others to quit.



Anna Vongphachanh
Anchorage, AK

2-18-15

○ Ever since I started vaping, my life has only improved. I was a cigarette smoker for seventeen years and now I'm not. Now that I vape I physically feel a lot better than I ever have as a smoker. Vaping and tobacco smoke should never be categorized in the same class, as the two are completely different. Vaping is most definitely a healthier alternative to smoking. I love vaping. Anchorage Alaska has a beautiful

) Community of vapers. There are positive events vapers throw that unite the community with a sense of brotherhood and fellowship. Vape shops are popping up all over town which only helps the economy. Vapers are very courteous about where they vape and are really considerate of others. Vaping has only changed my life for the better and is only something positive in our community.

Mark Commese
Anchorage AK
2/17/2015

To whom this may concern,

I'm writing this to show how vaping/e-cigs have changed my life, for the better. I was a smoker for 10 years with no intentions to quit, until one day I noticed that I couldn't even make it up my own stairs without breathing hard. So I decided to head to a VAPE shop for a change in my life. I bought a kit, went home and did some research because I was still unsure, ~~so~~ so I reviewed the Mechanical end and chemical end of the products and industry. I am convinced this has saved my life. I no longer have any negative health conditions caused from smoking and this is 100% due to switching over to vaping.

Logan Cordell

 2/18/15

○ To Whom it May Concern,

I'm Lisa Shewer. I have been vaping for about 6 months. WOW! After 30 years of smoking tobacco; I can finally say... I AM Smoke-Free. In the past several months, I have noticed a significant difference in my health, energy, lungs and last... but not least... my finances. Vaping is a fraction of the price of cigarettes.

I was very skeptical in the beginning. So I did extensive research of on Vapizer - E Cigs and other electronic cigarettes as well as their product. I have not found ONE (1) conclusive result saying that vaping is as bad as tobacco or even concluding that it is unhealthy or harmful.

I was sooo impressed with the E-Cig; that I have turned my mother (after 50 years) into a non-smoker. She is now vaping... Her and her Doctor has seen a difference after only 3 months. Vaping has probably extended her life!!!

My story is very true, and one of many. I
would testify that to "The World" or anybody that
asked.

Any questions or Concerns;

Lysa Sherrer

907.884-5715

Sherrerville5@yahoo.com

Thank You
Lysa

TO WHOM IT MAY CONCERN,

VAPING IS A GREAT ALTERNATIVE TO SMOKING,
IT IS NOT SMOKING AND SHOULD NOT BE TREATED
AS SUCH. SINCE MAKING THE SWITCH I FEEL BETTER
AND AM HEALTHIER. TREATING VAPING AS SMOKING
IS A MISTAKE.

THANK YOU,



NICK BIZJAK 2/17/15

To whom it may concern,

I HAVE smoked for 40+ years
I've tried chantex and acupuncture
Cold turkey Nicotine patches nothing
worked. I vaped 12/31/14 and
haven't smoked since the smell
makes me sick of cigarettes, Thank
you for vading

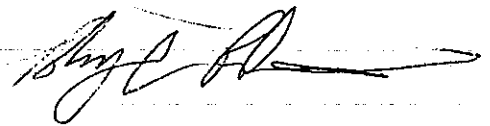
A stylized, cursive handwritten signature that appears to read "Lori Shuster". The signature is written in dark ink and is positioned to the left of the printed name.

LORI SHUSTER

2/17/15

Feb 17 2015

This is my testimonial for the SBI Bill. All my life my mother has chain smoked. She's always wanted to quit, she tried everything and nothing worked. So I started to do research and told her to pick up a Vapor pen. Although, she was very skeptical I told her if she did it I would do it with her. That was 8 months ago. Since then she has not picked up a single cigarette since. Her health has been 100% improved and she's saving a ton of money compared to cigarettes. It would not be fair to other ex-smokers to raise the price or taxes. might as well go back to smoking cigarettes.



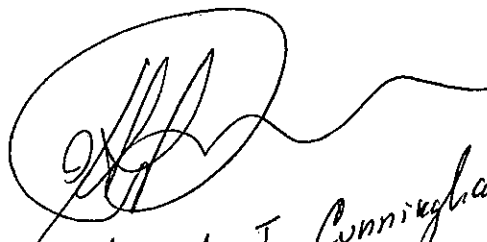
Johnny L Roberts

Vaping changed my life in the fact that I have been able to quit chewing and smoking. I am now down to 6mg from 18mg nicotine and intend to be @ 3mg by summer.

This has been a very life changing experience because I can hike, swim and be active without being winded.

I don't smell like cigarettes or have any more high blood pressure.

This is NOT smoking.


Kenneth J. Cunningham III
PALMER, ALASKA
2/17/15

Bryan L Perrien

2/16/14

@ Sumo Vapor

To date I have been a roller coaster smoker,
busy days @ work had me smoking almost a pack
of cigs a day. Working in food service it was our order
to keep the odors from our customers and the more
I smoked, the more unhealthy I felt. The smoke
adding to all kitchen particles I was inhaling
as well. 16 ~~hours~~ work days added to the
fatigue. Vaping has added energy through
not making my lungs feel ~~so~~ heavy & congested
from cigarettes

370

Anchorage AK 99501

As an ex-smoker, vaporizing has ~~me~~ returned me to good health, I have so many friends that have successfully quit smoking cigarettes because of vaporizers, despite multiple attempts at other alternatives. It is abhorrent to tax and regulate vaporizers the same as tobacco.

Seth Pomeroy 2-16-15 Anchorage, AK
@Samo Vapor

2/16/14

I have smoked 38 years until my
husband turned me on to vapes I haven't
smoked a cig in over a month I can breathe
better walk further, taste and smell better
I am slowly decreasing my Nic I hope
to completely stop all Nic and only vape for
the taste

Yamara West
~~Sumo~~ Sumo Vapers
anchorage Alaska
99501

all my life i have Been around cigs. Both my Parents. smoked,
And I started smoking at a very young age. I have tried
to quit cigs many many times over, tried all kinds of ways
and failed every time. So last year I decided to try vaping
and never turned Back. even being around other People smoking
I don't even Have a second thought about starting again.

A stylized, cursive handwritten signature in black ink, appearing to read 'J. P. Smith'.

Anchorage, AK
2/16/15

Vaping should not be associated w/ cigarettes for several reasons. First and foremost is the smell. While vaping does generate a scent, the scents are pleasant and fruity, unlike the stale tobacco stench that clings to cigarette smokers. Second, the carcinogens present in cigs are drastically reduced in vaporizers. Finally, the massive waste that is cigarette butts is virtually nonexistent with vaporizers. For these and many reasons besides, vaporizers should not be associated with cigarette smoke.



Ken Clarke
Anchorage AK
2/16/2015

Vaping shouldn't be banned because it's not harmful the way cigarette smoke is.

Smoke can give people diseases, hurt their lungs, and strain walls. Vapor won't do that so it's not hurting anything. Vaping is a delicious, healthy alternative that should be allowed everywhere.

Char

Char Connolly
Anchorage, AK
2/16/18

To whom it may concern,

Smoking, the combustion of organic + man made chemicals, hum. manmade chemicals. that sounds bad. statistically speaking more people die from smoking. than any other person. and not just boom your dead. But rather a slow painful death. Vaping may not yet be widely known as to the effects. However personally speaking I was a 2 pack a day guy, the day I purchased a vape mod I stopped smoking. Like zero cigarets now to date I'm 6 months free of smoking and I have never felt so good, things like, Breathing, tasting, energy. + mental alertness, all of which have sky rocketed.

I feel. AMAZING, IF you're a skeptic. Give it 30 Days + Reevaluate, I promise. you won't smoke again. Don't Be Afraid you can do it.

John Doe

Vaping has helped me quit smoking. I ~~am~~ now am not addicted to the nicotine and I feel 100% better and healthier in my life. I tried every thing else to try to quit but nothing worked. I tried Vaping and it really worked for me it doesn't have any nasty tastes or smell.

Hillary Denoncour 2/16/15

Hillary Denoncour

Anchorage, AK

HI, MY NAME IS TONY. FAGASALI, I VAPE
AND I SEE NO PROBLE WITH VAPING EVERY SINCE
I STARTED VAPING I HAVE NOT TOUCH A
CIGARETTE AND STILL GOING ON FOR 9 MONTHS
NOW. FEEL FREE TO CALL ME AT
(907)-782-5557.

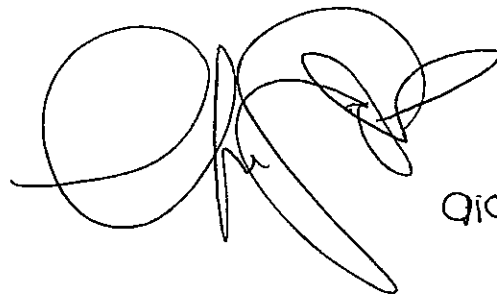


To whom it may concern:

Vaping has changed my life by allowing me to virtually eliminate smoking from my daily routine and regain my youth and preserve my health. Vaping has boosted my confidence by helping me maintain my hygiene and keeping my smile beautiful.

Thank you SUMO for providing me with health, better hygiene and helping cherish my body.

02-16-15

A stylized, cursive handwritten signature in black ink, consisting of several loops and a long, sweeping tail.

Qio Sanchez

~~test~~ Anchorage, Alaska

2/16/15

To whom it may concern,

Vaping changed my life by keeping me cigarette free for two years. I smoked for over 10 years and I am proud of that. ~~Vaping helped me~~ I feel better vaping. I don't smell like an ash tray and can go to work without the smell of smoke bothering anyone. ~~Exercising~~ Exercising is better for me and I have better breathing. I spend less money on vaping compared to cigarettes. My skin is better compared when I smoked cigarettes.

Thank you Sino for providing a wonderful atmosphere and providing vaping supplies.



Sasha Pagotongan

3755 Challenger Circle

Anchorage, AK 99517

Dan Delie
Box 100484
Dch, AK 99510
2-16-2015

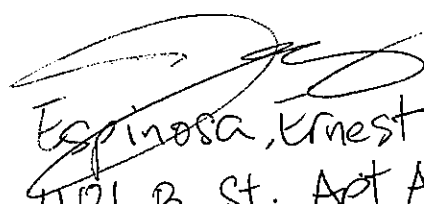
To whom it may concern;

As a former smoker of cigarettes I am so glad e-cigs have been sold here in Anchorage. After 28 years I could not stop smoking. Using e-cigs has improved my health. I can taste the food I eat. I can walk around and not experience a loss of breath. Starting out with my vapor at 18mg. I now after 4 yrs. of use is at 0mg. I have never heard about anyone having problems health wise because of e-liquids.

I have read peer-review reports about second hand Vape. In summary the report found by this Bio-chemical lab that there is no second hand vapor risk of people who do not use E-cigs. ^{risk of}

Most stores that sell these products second hand vapor is contained inside the store. The odor of second hand vapor is a non-evase of odor. As a consumer of e-liquids I want test what I am purchasing before I pay for the product. As a loss of my personal rights to use these products in public place. I feel this is imposing on my personal rights, because there is no known risks using these products. So why are you trying to force me to quit?

Dan Delie


Espinosa, Ernest
1101 B St. Apt A
Anchorage, AK 99501
(907) 231-3320

To whom it may concern,

I am a former smoker and I started vaping six months ago. I found that vaping really helps people from smoking real tobacco. As a member of the Armed Forces, it is really hard for me not to smoke especially during deployments. I used to smoke a pack a day and during my tour in Afghanistan, with all the stress I experienced, I end up smoking 2 to 3 packs everyday.

My ~~buddy~~ buddies are the same and after the tour I came across with electronic cigarettes. After a little bit of researched, I found and discovered vaping. Since then I haven't had a real ~~cigga~~ cigarettes since I started vaping. I introduced it to my battle buddies that I worked with and after a couple of months, everybody thank me because they all made it not to smoke again. There are 10 of them that haven't smoke ever since they knew about vaping.

I have Lived in Anchorage Alaska for 35 years and for 22 years I have smoked ~~king~~ cigarettes, since I have moved to vaping I can actually Breathe I can wake up in the morning now and can take a Deep breathe ~~in the morning~~ and can honestly say that it has changed my Life in many ways I can use it around my child and my parents without even so much as a single complaint and can now Breathe I have had no downside to vaping and have went from 24mg's to 2mg's in less than 6 month's and will probably never stop. I have made such a improvement in my life I really can't put it into words. Anyone who would want to mess with anything that has to do with vaping should worry more about smoking. Smoking caused me to have some very bad problems with catching pneumonia and one time was coughing up Blood! since I started vaping I'm 100% Better and can Breathe the best I have since the day I stopped smoking.

To Whom it may concern

02/16/15

Trevor Cornett 

Anchorage,
AK.

Wendy Naar
Anchorage, AK
Wendy Naar
2/16/15

Because of vaping I have gotten
10 people to quit smoking cigarettes. They all
agree how much better they feel. Eleven months
ago I started vaping started on 24 mg and now
today I am vaping 0 mg. It is now for enjoyment &
stress relief.

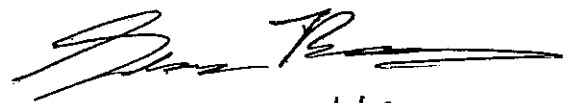
Jann Caspersen
Anchorage AK
16 Feb 2015

Vaping is my safe alternative to smoking cigarettes. Without
all the poisonous chemicals found in cigarettes, I can and have
enjoyed vaping. My amount of nicotine has dropped to nearly
zero with vaping, as opposed to smoking around 20 cigarette
cigarettes a day (much more nicotine). I do not have a lingering
nasty odor of smoking as the result of vaping. My co workers,
family, friends do not have to be inconvenienced by a smoker any
longer. I vape. J. Caspersen
I have been vaping for a year.

I Gavin M. Brown a citizen of Anchorage, AK find no reason to inhibit the use of nicotine vapors within the City. Any reasonable citizen using nicotine vapors is usually polite and courteous. If a business or resident finds it is necessary to ban such products in their facility that is their right. I find it overbearing to decide for the entire city's residence. We have not chosen to ban these products or their use. Please do not assume you know what's best for everyone.

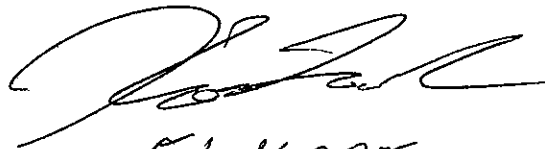
Gavin M. Brown

Feb. 16 2015


Anchorage, AK

I WAS A smoker for 25 yrs and vaping has
been the only curb for my smoking habits now
I can breathe better and no more nasty smoke smell
Been vaping over a year now and smoke free
My body feels so much better now. Having 5
children its been the best thing for me my
health and my family. They no longer have
to smell the cigarette on me. Just a much
healthier alternative for a vice

Kevin Truesdale



Feb 16, 2018

Anchorage, AK

VAPING FOR ME HAS HELPED TEN FOLD FOR QUITTING TOBACCO,
NOT ONLY IS IT A HEALTHIER ALTERNATIVE WITH NO CARCINOGENS,
IT IS THERAPEUTIC FOR THOSE WITH WITHDRAWALS, I LOVE
VAPORIZING AS IT BRINGS TOGETHER A FRIENDLY CULTURE & COMMUNITY,
NOT INTENDING TO HARM ANYONE LIKE TOBACCO COMPANIES,

- FRANCIS NOCBDA

FEB 16 . 2015

ANCHORAGE, AK

Francis Nocbda

I feel Vaping is better Than Cigaretts
Because there is no actual Smoke going into
the lungs and I know what is in the vapor juice
I have no idea how many chemicals are in
tabaco

Jason Schatz

Jason Schatz

Anchorage, AK

16 Feb 2015

Vaping is more eco-friendly and more comfortable for non-smokers to be around, ie. (the odor and toxicity level) in comparison to tobacco.

Marjo Ramos
Marjo Ramos
anchorage, Alaska

Feb 16, 2015

I think Vaping is a healthier alternative then cigarettes. I've been Vaping for almost 2 months and although I still smoke, I don't smoke as much as I used to. One of the things I like about Vaping is that ~~it~~ I can vape around friends and family, without worry of second hand smoke being harmful to my loved ones. I also like the fact that ~~it doesn't~~ Vaping doesn't make you stink like cigarettes. In comparison to smoking, Vaping should not be categorized as the same thing.

Sylvia


Jopery 2/18/2015

To Whom it may Concern:

I was a Smoker for 12 years. I tried it all to quit, and nothing worked. My Cousin also a long time Smoker quit due to an ecig. He purchased one for me and I haven't smoked since. I'm coming up on two years of being smoke-free. Within the first month of stopping, I noticed a change in my Health. I had more energy, I wasn't coughing in the mornings, my breathin was better, my taste had increase, and also my phsical appearance improved. I felt more confident in walking around not smelling of cigerattes. I started at a level 12 nic, now I'm a 3nic and headed towards 0 nic. It even gotten my dad to stop smoking who has been for 30 plus years. I'm thankful & greatful for that the most. His health has also improved. Grouping this with smoking would be a mistake. I've read various studies online, most of the negative studies are backed by tobacco companies. Other negative studies ~~show~~^{show} ~~show~~ vaping at extreme temperatures for long drags has it risk. Realistly any vapor can not vape in these condition or even achieve this with there device. There have been no known deaths due to vaping. It hasn't been around that long, but smoking can take its toll on a person in a short period of time. I've also have been to these vape conventions. There are doctors that back vaping. No doctor will say smoking cigerattes is safe in any way. A clip online shows the head of the FDA saying combustibile cigerattes (e-cig) are safer for public heath. Unlike second hand smoking the vapor released by a vapor has mininal to no effect on the none users.

Grouping vaping with tobacco is unfair. Unfair to the businesses that care for there customers, unfair to the ~~the~~ local business^{owners}, and unfair to the consumer. If this is also taxed at a high rate I believe current users would stop vaping and resort to smoking again due to high prices. Not being able to vape in the shops also pose a problem. Consumers would not be able to try product before buying and might deter them from even switching to a vaper. The Vaping industry & Anti-smoking group share the same ideals & goals. By regulating & taxing the state might destroy a great alternative to tobacco.

- Alonzo Malasarte


2/18/15

Chuck Kopp

From: Robin Forsi
Sent: Wednesday, January 28, 2015 5:40 PM
To: Chuck Kopp
Subject: FW: Smoking ban

-----Original Message-----

From: jeffndol [mailto:jeffndol@yahoo.com]
Sent: Tuesday, January 27, 2015 7:21 PM
To: Sen. Peter Micciche
Subject: Smoking ban

Good evening Sir, I hope this find you well.

This is Dollynda Phelps, perhaps you remember speaking with me a few days ago in regards to SB30. Please let me commend you for standing up for the voters, it was very encouraging to see some common sense in the mix. I am feeling a little more secure with my state government leaders!

But I am writing to you this evening in regards to another concerning bill that infringes on our rights as citizens and I believe takes a solid, well meant idea and pushes it over the line. I am talking about the proposed smoking ban. I am not a smoker, but in my mind not even allowing a private, enclosed section at existing establishments is so uncalled for. I have seen these private areas, ventilated to the outside, blocked off from indoor areas, and not accessible from the outside. I do appreciate the intent to protect everyone from second hand smoke, and I agree. But these smoking areas are just that-areas for smokers to go where they are NOT infringing on anyone else's breathing rights. What is the goal in not allowing these areas to exist any longer?? This brings up red flags for me, I see more and more rights taken away from the people and it is not just or fair.

I absolutely hate cigarette smoke. It breaks my heart to see a car full of children driving down the road with the windows up and the driver is puffing away. Yes, that should not be allowed!!!! There are clear victims in this case. But who is the victim if there is a designated, separate area, either outdoors or indoors with proper ventilation?? I cannot reasonably conceive that outdoor cigarette smoke diffused in the air is anywhere near as much of a pollutant as car exhaust. Therefore, under these grounds, all motor vehicles should be banned as well.

Please consider the obscene overreach this bill proposes. I am deeply hurt by all these new 'rules'.... Rules for this, rules, for that.... Oh you want to have a smoke? Oh there's a rule for that! Let's see some constructive rule making that is not so overbearing that they can be construed as infringement upon our Freedom. Please, I implore you to think about this. I'm not sure how many other citizens have expressed their concern about this, but they are out there and there are a lot of us! Perhaps they are too busy worrying about all the other Bills!!!!

I appreciate your time and would be happy to speak with you.
Dollynda Phelps 252-8026

Sent from: Lenovo B8000-F

Christie Jamieson

From: Jimmy <jameslarkinfox@gmail.com>
Sent: Wednesday, February 18, 2015 9:26 AM
To: Sen. Bert Stedman
Subject: Senate Bill 1

Dear Senator Stedman,

Senate Bill 1 lays out the scientific facts that exposure of tobacco smoke is harmful and that one person's right to smoke what he wants ends where his neighbor's nose begins.

I applaud the logic in this bill. And I draw your attention to the fact that numerous scientific studies show that wood smoke has worse impacts than tobacco smoke. One study found that 10 pounds of wood burned in one hour emits roughly the same amount of carcinogens as burning 43,000 packs of cigarettes. Put another way, one hour of wood burning is equivalent to smoking a pack of cigarettes every day for about 6 years.

Students, teachers and residents in Alaska, particularly Fairbanks and North Pole, are subjected to large doses of coal and wood smoke without their consent. We ask that Senate Bill 1 recognize this fact and expand the language in the bill to include coal and wood smoke. Otherwise, the bill shows ignorance and at worse negligence of these facts.

We appreciate your concern for the health impacts of smoke and would also draw your attention to the monetary needs of the Fairbanks North Star Borough to monitor and mitigate the harmful impacts coal and wood smoke is having on innocent children. See this recent [news article](#) as an example.

Regards,

--

"When vital issues were treated with depth and insight, people began 'thinking for themselves, and a thinking people, if honest, will seldom go wrong in the end.'" Doris Kearns Goodwin in The Bully Pulpit

Christie Jamieson

From: Jeremy Jenkins <JenkinsLJeremy81@hotmail.com>
Sent: Tuesday, February 17, 2015 6:16 PM
To: Sen. Kevin Meyer; Sen. Mia Costello; Sen. Gary Stevens; Sen. Click Bishop; Sen. Bert Stedman; Sen. Cathy Giessel; Sen. Pete Kelly; Sen. Bill Stoltze; Sen. Johnny Ellis
Subject: letter regarding SB-1

To whom it may concern,

My name is Jeremy Jenkins and I'm a reformed smoker who now uses electronic cigarettes and I also own an electronic cigarette store in Eagle River , AK.

I'm in opposition to SB-1 for several reasons.

I feel including the use of electronic cigarettes with the use of smoking and banning it as such is a miss representation. Vaping as it's often referred to is not smoking and does not produce the same carcinogens that smoke from a conventional cigarette does. It doesn't carry the offensive smell and odor and is nearly completely undetectable by smell and if any is detected it is generally considered rather pleasant.

Smoking bans are ostensibly enacted to protect the public from the harm of secondhand smoke, but e-cigarettes have not been found to pose a risk to bystanders. In fact, all evidence to date shows that low health risks associated with e-cigarettes are comparable to other smokeless nicotine products.

The low risks of e-cigarettes is supported by research done by Dr. Siegel of Boston University, Dr. Eissenberg of Virginia Commonwealth, Dr. Maciei L Goniewicz of the Roswell Park Cancer Institute, Dr. Laugesen of Health New Zealand, Dr. Igor Burstyn of Drexel University, and by the fact the FDA testing, in spite of its press statement, failed to find harmful levels of Carcinogens or toxic levels of any chemical in the vapor.

Business owners and managers should have the control if they want to allow use of E-cigarettes in their place of business. Banning the use of e-cigarettes in all public places similar to smoking will make it hard for the many small businesses in our state to stay in business. This will have a negative effect on the local communities as these businesses provide employment to locals that could effectively be out of work and worst case scenario close businesses that occupy retail locations that would otherwise sit empty.

People who use electronic cigarettes as a whole are generally rather respectful to others despite the low risks and honor the wishes of people who ask for them not to vape around them.

With the myriad of other issues within this state the money spent banning E-cigarettes and including them under the same rule as smoking is a waste and could be spent better in other places.



Sincerely

Jeremy Jenkins



Christie Jamieson

From: Elizabeth Gasses <mommy72011@outlook.com>
Sent: Wednesday, February 18, 2015 12:32 PM
To: Sen. Bert Stedman
Subject: Senate Bill 1

Dear Senate,

I am writing you because I oppose Senate Bill 1 because e cigarettes are included in the bans. I agree that second hand smoke is a problem and that vaping and electronic cigarettes are a solution. When I was about 14/15 I made the poor choice to smoke cigarettes and had shortness of breath and was sick often but I was introduced to vaping and it has made my life so much better. I can breath a lot easier. If you look up the ingredients of what all is in the vapor juices you will see that there is nothing really harmful in there. If the bill was changed to not include e-cigarettes and vapors then I would fully support it but until then, I cannot support anything that will inhibit a product that is affective as the removal of second hand cigarette smoke. Thank you for your time and I know if you would research or visit a vapor shop you would see the change.

Sincerely,

Elizabeth Gasses
Fairbanks, AK

Sent from my iPhone

Hello thank you for having me here today,

**my name is benjamin nguyen, i am the co owner of cloud 49
located in eagle river alaska**

**im here to express my concern in ~~the~~ regards to the senate bill
1 and its definition.**

included
**the author and sponsor of this bill. Senator Peter Micciche has
personal electronic vaporizers also known to the public as electronic
cigarette.**

**Senator Micciche, in your sponsor statement you stated, and i
quote “ the reason is simply to protect the rights of non-smokers,
save lives and reduce the staggering health cost of second hand
exposure to tobacco ~~use~~” end quote**
use

**in another article it also has your statement stated “ my father
made his personal choices” said Micciche “but my siblings and i
didn’t.**

**Im the lucky of the three. They all had respiratory issues from
from living through second-hand effects” end quote**
Smoke

**Senator Micciche, I now FULLY understand how passionate
you and your team are. Placing yourselves as the voice of the weak
and unable, and the young that doesnt know any better. To prevent
the same thing from happening as DID to your sibling.**

200% steadfast in this matter.

**But Senator because your this personal vendetta, and passion,
it has clouded your judgement.**

You see, me and you and fellow shop owners are actually working together, side by side to reach similar GOALS, and that is a healthier lifestyle.

You choose to fight the fight of bystanders and innocents. While we choose to fight the fight at its source. The frontline, converting tradition smokers everyday to a safer alternative.

With that being said Senator I urge you and your team to reconsider and rewrite Senate Bill 1. That it would exclude electronic cigarette and its establishment from the definition.

In closing

I ask you to reach out to us, learn about us as its community and as its industries.

Thank you for your time

Christie Jamieson

From: Cameron Washburn <cwakm8@gmail.com>
Sent: Tuesday, February 10, 2015 12:50 PM
To: Sen. Bert Stedman
Subject: E-cigarette Meeting

Dear Senator,

I am on vacation and just received an email from casaa regarding an upcoming meeting on Feb 11 regarding e-cigs/vaporizers. I will be unable to attend the meeting as I'm not due back until the 17th. I am writing you to ask that you promote the use of electronic cigarettes, and keeping them at a reasonable price.

I was a smoker for 10+ years, starting around 16. I had to try to quit a handful of times over the years. Chantix, cold turkey, reducing the strength of the cigarettes, and the original e-cigs. Over the years the technology and quality of the vaporizers has improved drastically. So I gave it another try and was able to succeed in finally kicking the habit. I appreciate it, my kids appreciate it, my girlfriend appreciates it. I do not believe that I could have done it otherwise. As much as I hate to admit that kind of weakness. But I am 100% cigarette free now.

It is my hope that others will be able to achieve the goal of not smoking. And anything that we can do to make that easier for them I believe we need to do. Imposing higher costs on the products trying to discourage their use only discourages smokers from trying a potential product that could help them quit. Outlawing their use completely eliminates the option for smokers. We should be promoting these products. Not making it the black sheep.

I have researched the use of e-cigs and formed what is obviously my own personal opinion but I wanted to share. They are made of compounds that have been used for a long time, and are FDA approved. What is not FDA approved is what happens when you combine the ingredients. Not because it shouldn't be, because it hasn't been done yet. Whether or not the big tobacco companies have a hand in the delay of this approval I don't know. But it is my belief that for every smoker they lose, their profit margins go down. \$2,400 a year in my case.

It may be safer to breathe air, but from someone who wants to quit smoking cigarettes, I would far prefer using something made with 4 FDA approved ingredients than something with 4,000 to 7,000 ingredients proven to cause cancer, illness and death. It is the obvious safer alternative.

Thank you very much for your time. I look forward to hearing the outcome of the meeting tomorrow.

Cameron Washburn

Christie Jamieson

From: Cameron Washburn <Cwakm8@gmail.com>
Sent: Tuesday, February 10, 2015 1:05 PM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

Cameron Washburn
118 Glacier Ave
Fairbanks, AK 99701

February 10, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette use and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

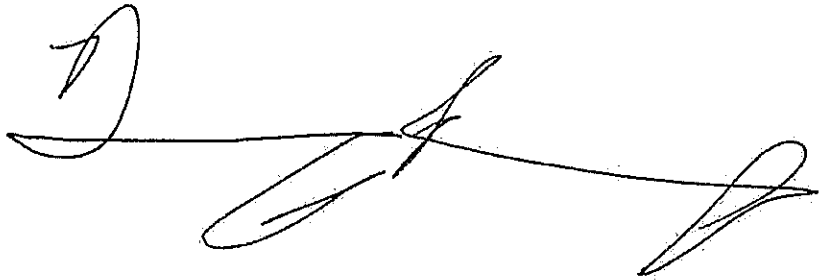
Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

In regards to Senate Bill 1: I am Danny Ruerup and I am opposed to SB 1. This Bill is phrased as a direct attack to local small business. There needs to be some rewording to this bill to stand up for community members that run small business that this will in effect shutdown their livelihood. There is no one that will argue that smoking and tobacco products are not healthy and kill millions a year. There is no proof the e-juice and vaping products do any such thing. There is a great deal of research that needs to be done yet that will provide any type of conclusion to this question. Please do not include e cigarettes in this bill. The state obviously does not have the funding to police this situation anyways. I appreciate your time to allow me to voice my opinion.

Danny Ruerup

A handwritten signature in black ink, appearing to read 'D. Ruerup', written over a horizontal line.

Thank you for taking time to hear my concerns with Senate bill 1 (SB1).

My name is Eric Vargason from North Pole, AK. I am no longer a smoker. I have tried numerous attempts to quit tobacco including gum, patches, therapy, counseling, thumb stones, assorted medication, including Chantix; many were recommended by the Alaska Quitline, none have worked for me and not for lack of trying. If you are questioning my motivation to quit, I was told if I didn't quit smoking I would die, that is plenty of motivation. Some of the recommendations even made my health conditions worse. After many failed attempts of using more mainstream ways of quitting tobacco, I found vaping. I haven't smoked since, and that was seven months ago. The last two years of using tobacco were my worst. I had diminished quality of life, loss of hope, and I would hang my head in shame while buying a pack of cigarettes. The past seven months I've noticed positive changes in my health and life. Now my breathing isn't labored, I feel energized, and I'm losing weight because I'm more active. I also have a great support network in the Alaskan vaping community. They help me stay tobacco free, for the first time in 23 years. That is over two decades that I have been dependent on tobacco products.

I have been six months without a lung infection, which were normal occurrences. I was often sick at work, due to my tobacco use. Since I have quite tobacco, I have been in good health and my productivity has gone up dramatically.

My family's health has improved as well, even though I never smoked inside, or around my daughter, this is the first winter that she has not required her inhaler. We had thought that it might be allergies, pollen, or other factors, but after a week of quitting tobacco she has been fine. My kids are proud to see that I have quit using tobacco products, my health has improved, as have theirs. I don't have any more regular check ups scheduled, and I will be around to enjoy more of their lives. Restricting alternatives to tobacco diminishes people's chances of quitting tobacco through alternative means. A medical research team from the University of London published in the British Journal of General Practice states "Given that smokers smoke for the nicotine but die primarily from the tar, one might imagine that e-cigarettes would be welcomed as a means to prevent much death and suffering caused by cigarettes." in conclusion I am proof that this works.



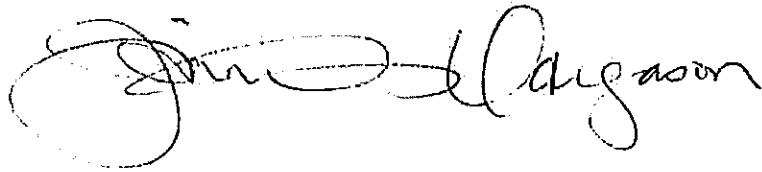
I would like to thank you for allowing me to share my concerns with Senate Bill 1 (SB1).

My name is Jennifer Vargason of North Pole, Alaska.

Vaping has saved my family from the ball and chain of tobacco use. And I am thankful for that! I am healthier, my husband is healthier, and my family is healthier. Why this bill would consider vaping the same thing as smoking or a tobacco product is beyond me. Vapor products do not contain tobacco and there is no combustion! Current research has shown that vaping does not have the harmful effect of smoking and there are no concerns for bystanders. The ingredients in the liquid are in every day foods that we consume. Yes, there can be nicotine in the liquid but there have been studies that show that nicotine is not harmful. The article "Is everything we know about nicotine wrong?" Dr. Neff even states instances where nicotine has been known to help certain conditions such as Alzheimer's disease, depression, Parkinson's disease, and more. It has been found that in those demographics tobacco use is higher. Alternatives to tobacco could help these demographics.

I have been a tobacco user since I was 9 years old. Since then I have gone from Iqmik (natural tobacco mixed with punk ash), Copenhagen, to cigarettes and have never been able to quit. I will be honest and tell you that when I first came upon vaping, I rolled my eyes and thought that it was just another fad that does not work. I was disgusted that my husband would vape, I was hesitant to even try it until I had witnessed my husband go without a cigarette for over a month. I was amazed, as I had seen him try several different methods of quitting, none of which were successful. I did a little research, after seeing the results in person, and I decided to give it a try. When I started vaping, I vaped while I was off work, but I still used Iqmik during normal work hours. Since December of 2014, I have been without

tobacco completely. Nearly 28 years of tobacco use and I haven't yet picked up a cigarette or any form other of tobacco since! Please reconsider Senate Bill 1. Thank you again for taking your time to read my testimony.

A handwritten signature in black ink, appearing to read "Jim H. Lagson". The signature is fluid and cursive, with a large initial "J" and "L".

Christie Jamieson

From: Will Manuel <wmmanuel@hotmail.com>
Sent: Wednesday, February 11, 2015 8:12 PM
To: Sen. Bert Stedman
Subject: SB 1

Follow Up Flag: Follow up
Flag Status: Flagged

Senator Stedman,

I hope this day finds you and your family well.

I am writing you this evening in regards to SB 1. My words will be few, and not as refined as I usually try to be.

Although I prefer to walk into a business that has chosen to be smoke free, and I think even many smokers enjoy to spend time in smoke free environments, I am against a State Law dictating that a private business not allow smoking. Most business are already smoke free, especially the ones that children are brought into. Yes, I do believe people have the right to breathe clean air, but they also have the right to make a choice and they have to accept the personal responsibility to not subject themselves or possibly their children to an environment that caters to smokers. This is true just as the owners of private businesses have the right to decide whether or not they allow smoking within their facilities.

I also understand that current and prospective employees have the right to breathe clean air, but they also have the choice and personal responsibility to not work in an establishment that allows smoking. What's more, in today's society most business owners have come to realize that they are severely limiting themselves of potential employees and patrons if they allow smoking within the confines of their establishment, this without written law.

I applaud and commend businesses who go smoke free on their own accord, but I can never support any Governmental Entity who uses force via legislation and consequence.

Thank you for your time and consideration.

God bless,

William M. Manuel, MICP, NR-P
1513 Pine Ave
Kenai, AK 99611

Christie Jamieson

From: David Paulsen <dpaulsen@gci.net>
Sent: Thursday, February 12, 2015 12:48 AM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

David Paulsen
4501 Reka #1
Anchorage, AK 99508

February 12, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette liquid and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

I urge you to oppose these bills and any legislation that would limit where smoke-free products like e-cigarettes can be used. It is imperative that existing adult smokers become aware of all the alternatives currently available and that access to these products remains unimpeded.

I look forward to your response on this issue. I, along with my fellow members of CASAA (Consumer Advocates for Smoke-free Alternatives Association), thank you for considering my comments and hope you will oppose misguided attempts to limit adult use of smoke-free e-cigarettes.

Sincerely,
David Paulsen

Christie Jamieson

From: Cameron Washburn <cwakm8@gmail.com>
Sent: Tuesday, February 10, 2015 12:50 PM
To: Sen. Bert Stedman
Subject: E-cigarette Meeting

Dear Senator,

I am on vacation and just received an email from casaa regarding and upcoming meeting on feb 11 regarding e-cigs/vaporizers. I will be unable to attend the meeting as I'm not due back until the 17th. I am writing you to ask that you promote the use of electronic cigarettes, and keeping them at a reasonable price.

I was a smoker for 10+ years, starting around 16. I had to tried to quit a handful of times over the years. Chantix, cold turkey, reducing the strengthen the cigarettes, and the original e-cigs. Over the years the technology and quality of the vaporizers has improved drastically. So I gave it another try and was able to succeed in finally kicking the habit. I appreciate it, my kids appriciate it, my girlfriend appreciates it. I do not believe that I could have done it otherwise. As much as I hate to admit that kind of weakness. But I am 100% cigarette free now.

It is my hope that others will be able to achieve the goal of not smoking. And anything that we can do to make that easier for them I believe we need to do. Imposing higher costs on the products trying to discourage their use only discourages smokers from trying a potential product that could help them quit. Outlawing their use completely eliminates the option for smokers. We should be promoting these products. Not making it the black sheep.

I have researched the the use of e-cigs and formed what is obviously my own personal opinion but I wanted to share. They are made of compounds that have been used for a long time, and are FDA approved. What is not FDA approved is what happens when you combine the ingredients. Not because it shouldn't be, because it hasn't been done yet. Whether or not the big tobacco companies have a hand in the delay of this approval I don't know. But it is my belief that for every smoker they lose, their profit margins go down. \$2,400 a year in my case.

It may be safer to breath air, but from someone who wants to quit smoking cigarettes, I would far prefer using something made with 4 FDA approved ingredients than something with 4,000 to 7,000 ingredients proven to cause cancer, illness and death. It the obvious safer alternative.

Thank you very much for you time. I look forward to hearing the outcome of the meeting tomorrow.

Cameron Washburn

Christie Jamieson

From: Alex McDonald <alex@icefogvapor.com>
Sent: Monday, February 09, 2015 9:37 PM
To: Sen. Bert Stedman
Subject: SB1
Attachments: CSA_ItaEng.pdf; ATT00001.htm

Senator Stedman,

My name is Alex McDonald, owner of Ice Fog Vapor, Inc. Fairbanks, AK. I wanted to contact you regarding my concerns with proposed Senate Bill 1 (SB1).

First, I am concerned that SB1 would take away local option for communities throughout the state to deal with issues that may or may not affect their individual community. Many other substances such as alcohol and marijuana are or will be local option for places to set up their own regulations regarding their use. This is currently the case with tobacco and several cities have already chosen to set their own rules regarding tobacco use. Juneau is smoke free, it is also not -30 in Juneau today either making it easier to step out side to an area designated for tobacco use. In Fairbanks it is currently up to local businesses to set their own policies if they would like to be smoke free. This gives both consumers and employees the choice to work at or patronize places of their choo sing. I know several places that have gone smoke free, yet built heated smoking rooms for people that wish to use tobacco. Many of these smoking rooms are closer to the entrance of the establishment than is required by SB1, and there is not a grandfather clause that would leave smoking rooms as a viable solution. This would punish places that have spent money trying to be proactive in implementing policies regarding tobacco use.

Another concern I have with SB1 is enforcement. I know the budget is tight and I have been reading about cuts across the board. It does not appear feasible to create more laws that would require enforcement and more people working for the state when the state is trying to save money. The bill states an employee designated by the commissioner may enforce the provisions; and also states that the citation may be issued regardless of whether the violation was committed in the designated employees presence. This sounds like it would open the door for people being issued citations for non compliance without anyone actually seeing any violation.

My final and major concern with SB1 is that it is detrimental in helping people get off tobacco products. I am all for getting people off of tobacco products. I used a variety of tobacco products for 19 years and tried everything from traditional nicotine replacement therapies to prescription pharmaceuticals to quit using tobacco, none worked. I found an alternative to tobacco that has worked for me to quit all tobacco products; and if vapor products are included in this bill it would greatly inhibit that option for people trying to quite tobacco products. I have switched to using a vaporizer and have been tobacco free for well over a year now. Vaporizers do not contain any tobacco, or combustion by products. In the study "Characterization of chemicals released by electronic cigarette use: Is passive vaping a reality?", attached, it was concluded "by saying that could be more unhealthy to breath air in big cities compared to staying in a room with someone who is vaping." The Drexel University study, link attached, found "no apparent concern" for bystanders of people using electronic cigarettes even under "worse case" assumptions about exposure. A study of tobacco use among adults in Minnesota found a 10% decrease in use among adults from 2010-2014. Of those that attempted to quit in the last 12 months over 40% tried vaporizers in their attempt to quit tobacco use. This is double the rates for traditional Nicotine Replacement Therapies, such as the patch or gum, and quadruple the rates of use of pharmaceutical products, such as Chantix. Vaporizers were the number one choice people in Minnesota turned to in their attempt to quit tobacco use, which is now at an all-time low among adults. SB1 would unfairly treat this

tobacco alternative as tobacco, while not including less popular choices like the patch or gum. If this is a bill against tobacco use and discouraging people from using tobacco, leave it at tobacco. If this bill is to help improve public health, vaporizers should not be included in a smoking ban, especially when there are numerous studies stating there is no concern of harm from second hand vapor exposure. If you would like further studies and research articles, please feel free to contact me either by email, or by phone, work (907) 328-1077, or cell (907) 978-8098. Thank you for your time and consideration in this matter.

Sincerely,

Alex McDonald
Owner, Ice Fog Vapor, Inc
Fairbanks, AK

http://clearstream.flavourart.it/site/wp-content/uploads/2012/09/CSA_ItaEng.pdf

<http://www.biomedcentral.com/1471-2458/14/18>

Christie Jamieson

From: Sandra Cornelius <oscfbks@yahoo.com>
Sent: Monday, February 09, 2015 2:29 PM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

Sandra Cornelius
1347 Spring Glade Rd
Fairbanks, AK 99709

February 9, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette liquid and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

Christie Jamieson

From: Ryan McKeown <irreverend23@gmail.com>
Sent: Monday, February 09, 2015 2:54 PM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

Ryan McKeown
240 E Susitna Ave
Wasilla, AK 99654

February 9, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette liquid and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

Christie Jamieson

From: steve mapes <akgofast@gmail.com>
Sent: Sunday, February 08, 2015 6:44 PM
To: Sen. Bert Stedman; Sen. Cathy Giessel; Sen. Pete Kelly; Sen. Bill Stoltze; Sen. Johnny Ellis
Subject: SB1

Hello ,

I am sending you this email to express my concerns about this senate bill, SB1..

I was able to get off tobacco after 40 years of being a daily smoker using personal vaporizers and e-liquids that contained nicotine. I did a lot of research into the products being offered and I believe that I made the correct choices

If the option to vape an extremely less harmful product than tobacco is made more difficult than it already is people might not get the chance to get off tobacco.

This product has been studied quite a bit and very little harmful or dangerous traces have been found in it..

Certainly it is much much better then smoking..

My breathing and stamina has improved dramatically..

This nicotine delivery method saves me money..

Please give others the choice, and the chance to make their own decisions about their health..

The vape shops I buy from do not sell to youngsters and I see them carding young adults to make sure that they are of legal age to purchase nicotine products..

Please do the research yourself.. Do not listen to the propaganda that seems to be getting more newspaper headlines than the research by qualified, third party researchers and scientists.. Alaskans health is nothing to make uninformed decisions about..

Thank you for taking the time to consider a voters opinion.

Steven Mapes

47870 Interlake drive

Kenai Alaska 99611

Christie Jamieson

From: Steven Mapes <akgofast@gmail.com>
Sent: Sunday, February 08, 2015 6:47 PM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

Steven Mapes
47870 Interlake Drive
Kenai, AK 99611

February 8, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette liquid and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

I urge you to oppose these bills and any legislation that would limit where smoke-free products like e-cigarettes can be used. It is imperative that existing adult smokers become aware of all the alternatives currently available and that access to these products remains unimpeded.

I look forward to your response on this issue. I, along with my fellow members of CASAA (Consumer Advocates for Smoke-free Alternatives Association), thank you for considering my comments and hope you will oppose misguided attempts to limit adult use of smoke-free e-cigarettes.

Sincerely,
Steven Mapes

Christie Jamieson

From: Guinness64 . <jmfinney64@gmail.com>
Sent: Friday, February 06, 2015 12:20 PM
To: Sen. Bert Stedman
Subject: Regarding SB1

Senator Stedman,

I am writing you to voice my concerns with SB1, **REGULATION OF SMOKING**. **There are several items in this bill that I find concerning, and would like your thoughts regarding them. Thank you in advance for your attention to this matter.**

In Sec 18.35.301.f.1, smoking the bill states that nothing in the section would prohibit smoking in a private club, but then prohibits smoking in private clubs that serve alcohol or have employees. This section would in fact prohibit smoking in 99% of the private clubs that would have smokers in it. The big questions about this section, what does the consumption of alcohol make an establishment required being smoke-free, and what private club does not have a single employee?

Under Section 18.35.346.b, an employee of the department designated by the commissioner to enforce the provisions of AS 18.35.301, 18.35.306, 18.35.311, or 18.35.326 may issue a citation for a violation of AS 18.35.301, 18.35.306, 18.35.311, or 18.35.326 **regardless of whether the violation was committed in the employee's presence**. This section is one of the most concerning of the entire bill. This section alone gives an employee with no policing authority, more power than an actual law enforcement officer. In the section above, Section 18.35.346.a, a peace officer may only issue a citation if they **witness** the act. This opens the door to false claims, whereas I could call in an anonymous report of someone violating this bill, regardless of whether it was true or not. Not to mention, with the budgetary issues that are occurring in the state currently, with a large state employee layoff to occur, can we afford new employees for this monitoring?

Along with the "prohibition" of smoking, the author has placed electronic cigarettes in the same category as smoking. Electronic cigarette just by name alone have been treated improperly solely because they look like cigarettes. People whom actually use them refer to them as personal vaporizers, because the term ecigs assists in a bad reputation. Aside from containing nicotine, but not always, there is absolutely nothing similar between the two items. Vaporizers do not emit smoke, they emit a vapor for inhalation. The second hand vapor in these devices has been tested, and it has been found to be below toxic level for workplace safety. This study was done by Drexel University titled "Peering Through the Mist". Nearly every single study that has painted a negative picture on personal vaporizers has been deemed invalid because of improper testing. With the potential benefits personal vaporizers have on the American public, it would be negligent to **allow** them to be included in this bill.

In closing, I would implore you to stop this bill from progressing through the committees, and not allow it to even be given a vote. The poorly written text along with the lack of evidence to include certain items makes this one of the largest violations of personal rights we will see this session.

Thank you,

Jason Finney

North Pole, AK

907-322-1301

Christie Jamieson

From: Alex McDonald <alex@icefogvapor.com>
Sent: Monday, February 09, 2015 9:37 PM
To: Sen. Bert Stedman
Subject: SB1
Attachments: CSA_ItaEng.pdf; ATT00001.htm

Senator Stedman,

My name is Alex McDonald, owner of Ice Fog Vapor, Inc. Fairbanks, AK. I wanted to contact you regarding my concerns with proposed Senate Bill 1 (SB1).

First, I am concerned that SB1 would take away local option for communities throughout the state to deal with issues that may or may not affect their individual community. Many other substances such as alcohol and marijuana are or will be local option for places to set up their own regulations regarding their use. This is currently the case with tobacco and several cities have already chosen to set their own rules regarding tobacco use. Juneau is smoke free, it is also not -30 in Juneau today either making it easier to step out side to an area designated for tobacco use. In Fairbanks it is currently up to local businesses to set their own policies if they would like to be smoke free. This gives both consumers and employees the choice to work at or patronize places of their choosing. I know several places that have gone smoke free, yet built heated smoking rooms for people that wish to use tobacco. Many of these smoking rooms are closer to the entrance of the establishment than is required by SB1, and there is not a grandfather clause that would leave smoking rooms as a viable solution. This would punish places that have spent money trying to be proactive in implementing policies regarding tobacco use.

Another concern I have with SB1 is enforcement. I know the budget is tight and I have been reading about cuts across the board. It does not appear feasible to create more laws that would require enforcement and more people working for the state when the state is trying to save money. The bill states an employee designated by the commissioner may enforce the provisions; and also states that the citation may be issued regardless of whether the violation was committed in the designated employees presence. This sounds like it would open the door for people being issued citations for non compliance without anyone actually seeing any violation.

My final and major concern with SB1 is that it is detrimental in helping people get off tobacco products. I am all for getting people off of tobacco products. I used a variety of tobacco products for 19 years and tried everything from traditional nicotine replacement therapies to prescription pharmaceuticals to quit using tobacco, none worked. I found an alternative to tobacco that has worked for me to quit all tobacco products; and if vapor products are included in this bill it would greatly inhibit that option for people trying to quite tobacco products. I have switched to using a vaporizer and have been tobacco free for well over a year now. Vaporizers do not contain any tobacco, or combustion by products. In the study "Characterization of chemicals released by electronic cigarette use: Is passive vaping a reality?", attached, it was concluded "by saying that could be more unhealthy to breath air in big cities compared to staying in a room with someone who is vaping." The Drexel University study, link attached, found "no apparent concern" for bystanders of people using electronic cigarettes even under "worse case" assumptions about exposure. A study of tobacco use among adults in Minnesota found a 10% decrease in use among adults from 2010-2014. Of those that attempted to quit in the last 12 months over 40% tried vaporizers in their attempt to quit tobacco use. This is double the rates for traditional Nicotine Replacement Therapies, such as the patch or gum, and quadruple the rates of use of pharmaceutical products, such as Chantix. Vaporizers were the number one choice people in Minnesota turned to in their attempt to quit tobacco use, which is now at an all-time low among adults. SB1 would unfairly treat this

tobacco alternative as tobacco, while not including less popular choices like the patch or gum. If this is a bill against tobacco use and discouraging people from using tobacco, leave it at tobacco. If this bill is to help improve public health, vaporizers should not be included in a smoking ban, especially when there are numerous studies stating there is no concern of harm from second hand vapor exposure. If you would like further studies and research articles, please feel free to contact me either by email, or by phone, work (907) 328-1077, or cell (907) 978-8098. Thank you for your time and consideration in this matter.

Sincerely,

Alex McDonald
Owner, Ice Fog Vapor, Inc
Fairbanks, AK

http://clearstream.flavourart.it/site/wp-content/uploads/2012/09/CSA_ItaEng.pdf

<http://www.biomedcentral.com/1471-2458/14/18>

Christie Jamieson

From: Sandra Cornelius <oscfbks@yahoo.com>
Sent: Monday, February 09, 2015 2:29 PM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

Sandra Cornelius
1347 Spring Glade Rd
Fairbanks, AK 99709

February 9, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette use and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

Christie Jamieson

From: Ryan McKeown <irreverend23@gmail.com>
Sent: Monday, February 09, 2015 2:54 PM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

Ryan McKeown
240 E Susitna Ave
Wasilla, AK 99654

February 9, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette liquid and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

Christie Jamieson

From: steve mapes <akgofast@gmail.com>
Sent: Sunday, February 08, 2015 6:44 PM
To: Sen. Bert Stedman; Sen. Cathy Giessel; Sen. Pete Kelly; Sen. Bill Stoltze; Sen. Johnny Ellis
Subject: SB1

Hello ,
I am sending you this email to express my concerns about this senate bill, SB1..
I was able to get off tobacco after 40 years of being a daily smoker using personal vaporizers and e-liquids that contained nicotine. I did a lot of research into the products being offered and I believe that I made the correct choices
If the option to vape an extremely less harmful product than tobacco is made more difficult than it already is people might not get the chance to get off tobacco.
This product has been studied quite a bit and very little harmful or dangerous traces have been found in it..
Certainly it is much much better then smoking..
My breathing and stamina has improved dramatically..
This nicotine delivery method saves me money..
Please give others the choice, and the chance to make their own decisions about their health..
The vape shops I buy from do not sell to youngsters and I see them carding young adults to make sure that they are of legal age to purchase nicotine products..
Please do the research yourself.. Do not listen to the propaganda that seems to be getting more newspaper headlines than the research by qualified, third party researchers and scientists.. Alaskans health is nothing to make uninformed decisions about..
Thank you for taking the time to consider a voters opinion.
Steven Mapes
47870 Interlake drive
Kenai Alaska 99611

Christie Jamieson

From: Steven Mapes <akgofast@gmail.com>
Sent: Sunday, February 08, 2015 6:47 PM
To: Sen. Bert Stedman
Subject: Please Oppose SB 1 and HB 40 and any other effort to treat e-cigarettes like smoking.

Steven Mapes
47870 Interlake Drive
Kenai, AK 99611

February 8, 2015

Dear Bert Stedman,

I am writing to express my deep concern and opposition regarding HB 40 and SB 1 which would include the use of smoke-free vapor products (e-cigarettes) in Alaska's smoking law.

Smoking laws are ostensibly enacted to protect the public from the harm of secondhand smoke, but smoke-free e-cigarettes have not been shown to cause harm to bystanders. In fact, all evidence to date shows that the low health risks associated with e-cigarettes are comparable to other smokeless nicotine products. A comprehensive review conducted by Dr. Igor Burstyn of Drexel University School of Public Health (and published in a peer-reviewed journal earlier this year - <http://www.biomedcentral.com/1471-2458/14/18/abstract>) examined over 9,000 observations of e-cigarette use and vapor and found "no apparent concern" for bystanders exposed to e-cigarette vapor, even under "worst case" assumptions about exposure.

Lawmakers must beware of unintended consequences from well-intentioned laws. There is clear evidence of a phenomenon called "accidental quitting," wherein many of the smokers who initially choose e-cigarettes to use just where smoking is prohibited go on to quit smoking conventional cigarettes completely. Prohibiting the use of e-cigarettes in public spaces completely eliminates that incentive to even try e-cigarettes. Unfortunately, the health risks of every one smoker who doesn't quit because e-cigarette use is prohibited (and the risks to the children and others who live with them) cumulatively outweigh any good done by eliminating the miniscule exposures to even hundreds of bystanders in public spaces.

Clearly, the benefits of allowing smokers to use e-cigarettes in public--and thereby increasing the likelihood of "accidental quitting" and reducing the known, extremely high health risks of smoking--outweigh the very low risks of insignificant exposures to bystanders. So, not only is there no genuine public health reason to prohibit e-cigarette use in public spaces, but, in fact, allowing e-cigarettes to be used in public spaces will actually improve public health by inspiring other smokers to switch and reduce their health risks by an estimated 99%. Moreover, private businesses in Alaska are already setting their own policies, and they should retain the right to allow or disallow usage since there is no proven health threat to bystanders.

While I understand some have expressed a fear about these products acting as a "gateway" to traditional cigarettes for youth, there is no evidence to suggest this is really happening, and research actually shows it is unlikely to happen to any substantial extent. Teen smoking rates are at their lowest point since smoking became popular and continue to drop, but there are adults who will continue to smoke until they die unless we provide attractive alternatives.

I urge you to oppose these bills and any legislation that would limit where smoke-free products like e-cigarettes can be used. It is imperative that existing adult smokers become aware of all the alternatives currently available and that access to these products remains unimpeded.

I look forward to your response on this issue. I, along with my fellow members of CASAA (Consumer Advocates for Smoke-free Alternatives Association), thank you for considering my comments and hope you will oppose misguided attempts to limit adult use of smoke-free e-cigarettes.

Sincerely,
Steven Mapes

Christie Jamieson



From: Guinness64 . <jmfinney64@gmail.com>
To: Friday, February 06, 2015 12:20 PM
Subject: Sen. Bert Stedman
Regarding SB1

Senator Stedman,

I am writing you to voice my concerns with SB1, **REGULATION OF SMOKING**. **There are several items in this bill that I find concerning, and would like your thoughts regarding them. Thank you in advance for your attention to this matter.**

In Sec 18.35.301.f.1, smoking the bill states that nothing in the section would prohibit smoking in a private club, but then prohibits smoking in private clubs that serve alcohol or have employees. This section would in fact prohibit smoking in 99% of the private clubs that would have smokers in it. The big questions about this section, what does the consumption of alcohol make an establishment required being smoke-free, and what private club does not have a single employee?

Under Section 18.35.346.b, an employee of the department designated by the commissioner to enforce the provisions of AS 18.35.301, 18.35.306, 18.35.311, or 18.35.326 may issue a citation for a violation of AS 18.35.301, 18.35.306, 18.35.311, or 18.35.326 **regardless of whether the violation was committed in the employee's presence**. This section is one of the most concerning of the entire bill. This section alone gives an employee with no policing authority, more power than an actual law enforcement officer. In the section above, Section 18.35.346.a, a peace officer may only issue a citation if they **witness** the act. This opens the door to false claims, whereas I could call in an anonymous report of someone violating this bill, regardless of whether it was true or not. Not to mention, with the budgetary issues that are occurring in the state currently, with a large state employee layoff to occur, can we afford new employees for this monitoring?

Along with the "prohibition" of smoking, the author has placed electronic cigarettes in the same category as smoking. Electronic cigarette just by name alone have been treated improperly solely because they look like cigarettes. People whom actually use them refer to them as personal vaporizers, because the term ecigs assists in a bad reputation. Aside from containing nicotine, but not always, there is absolutely nothing similar between the two items. Vaporizers do not emit smoke, they emit a vapor for inhalation. The second hand vapor in these devices has been tested, and it has been found to be below toxic level for workplace safety. This study was done by Drexel University titled "Peering Through the Mist". Nearly every single study that has painted a negative picture on personal vaporizers has been deemed invalid because of improper testing. With the potential benefits personal vaporizers have on the American public, it would be negligent to w them to be included in this bill.

In closing, I would implore you to stop this bill from progressing through the committees, and not allow it to even be given a vote. The poorly written text along with the lack of evidence to include certain items makes this one of the largest violations of personal rights we will see this session.

Thank you,

Jason Finney

North Pole, AK

907-322-1301

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Cameron Fritz
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Gabriel J Rinon JR

Name

Fairbanks, Alaska

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Cody Grenseman
Name ✓

Fairbanks Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Leslie Trebbien
Name

Salcha, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Thompson, Patrick
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Anthony D. Anglis
Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Bradley Jeffords
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

KRIS Veer 

Name

Fairbanks AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Torothy A. Wilson

Name

North Pole Alaska

City, State

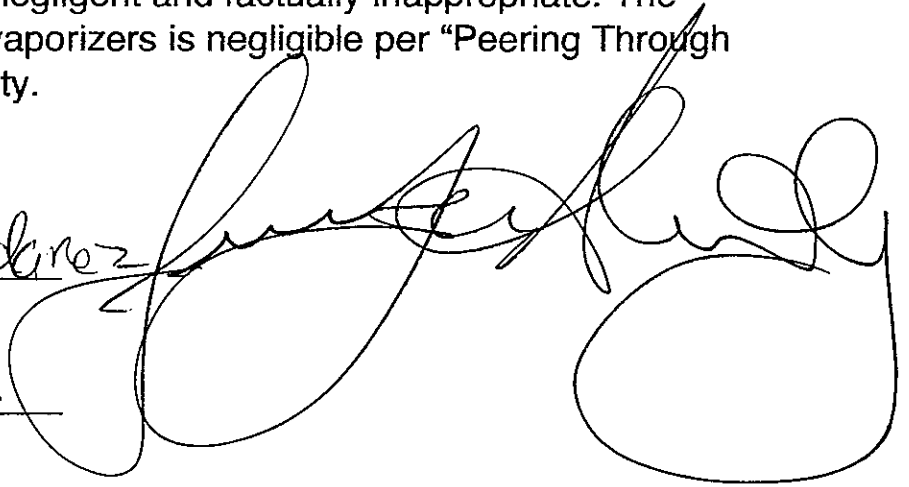
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jenny Ser Almendarez
Name

Fb ks AK.
City, State

A large, stylized handwritten signature in black ink, which appears to be "Jenny Ser Almendarez", written over the printed name and extending to the right.

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

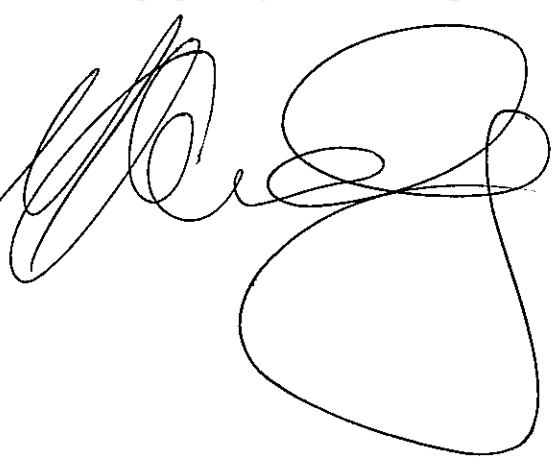
Thank you,

Michael Almendarez

Name

Fols AK

City, State

A large, stylized handwritten signature in black ink, appearing to be 'Michael Almendarez', written over the printed name and extending to the right.

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

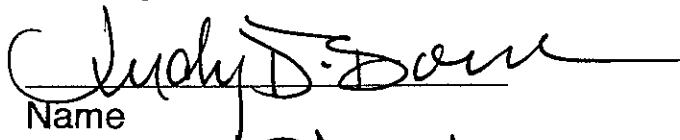
Bryan Moore
Name


Ford Wainwright, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Zachary Schaller
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Lorne Schaller

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Brian K. Patrick
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Alex Slaymaker
Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Michael Durbin

Name

North Pole, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Candice Kuck

Name

North Pole, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Chelsy Durbin
Name

North Pole, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Dillon Gelman

Name

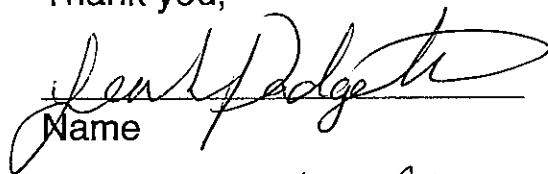
Fairbanks Alaska

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

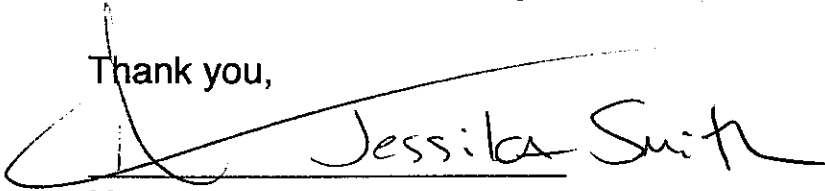

Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

North Pole, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Brendan Walker

Name

Fairbanks, Alaska

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Eleona Walker

Name

Fairbanks. AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

TRAVIS WINSTEAD

Name

NORTH POLE, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

BRANDI WINSTEAD

Name

NORTH POLE, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

O'Hara, Sean
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Daniel Lawrence 
Name

Fairbanks Alaska
City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Ginger Trussell
Name

Noethel, AK 99705
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Michael Drinkwater

Name

Eickon APB, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Christopher S. Gallagher

Name

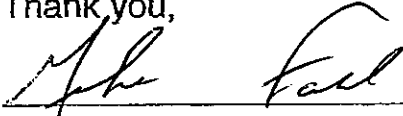
Eielson AFB, AK.

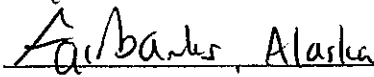
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Barbara Michael

Name

Fairbanks, Alaska

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jason Petty
Name

North Pole AK
City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Paul Trissel PAUL TRISSEL

Name

NORTH POLE, AK

City, State

to which it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Kyle Perry
Name

North Pole, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Mary A. Zeaple
Name

North Pole, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jarrod L McAnayre

Name

Fairbanks AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

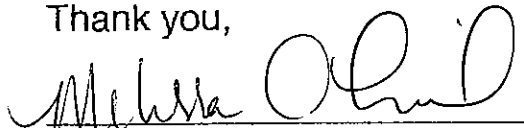
Wendy Clark
Name

NORTH POLE AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

 melissa A Emick
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

FRKS AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Ryan Bokeman
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Alex Arneson
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

David LeDoux
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

 April Logan


Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Keith Ostr 

Name

Fairbanks, AK

City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Robinson, John

Name

North Pole, AK

City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Roni Roberts

Name

Fairbanks, AK 99701

City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jennifer Wright
Name

Fairbanks, AK
City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Steve Groves

Name

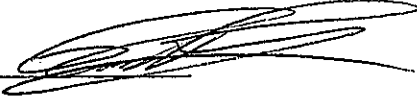
Fairbanks AK

City, State

to which it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Daniel J. Rood 

Name

North Pole, AK 99705

City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Amanda Savage

Name


Fairbanks AK

City, State

to whom it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University

Thank you,


JENNINGS Wesley

Name

FAIRBANKS, AK

City, State

to which it may concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

North Pole, AK
City, State

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Alesha Mijo

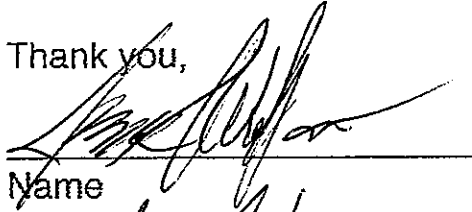
Name

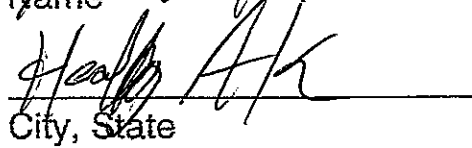
North Pole, Alaska

City, State

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Fritz Richardson
Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Michael O'Shea

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Brianna Wharton

Name

Fairbanks AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Missy Brants

Name

Phila, PA. 99707

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Justin Sammons
Name

North Pole AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jason Langley
Name

West Point, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Abram Langworthy
Name

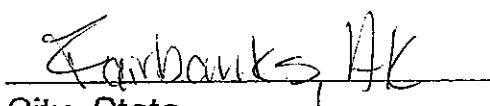
North Pole, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

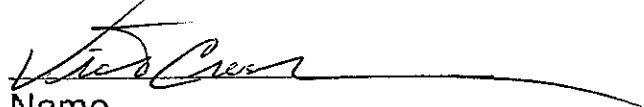
Ryan L. Lintelman
Name

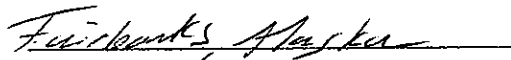
Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,



Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Brian Pitcher 

Name

North Pole, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Christopher S. Gallagher
Name

Etelson AFB / Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Darin Shelton
Name

Fairbank, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Robert Williamson
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jason Crocker

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Nikki Drummond

Name

FBX, AR

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Kristy Newman
Name

North Pole AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Wendi Frarey

Name

North Pole, Alaska

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Chris Lacombe
Name

Fairbanks AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

Eielson AFB, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Desmond Cook

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Kristine Welling

Name

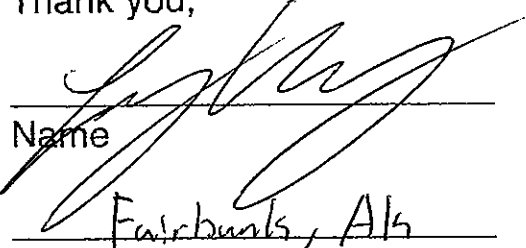
North Pole, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,



Name



City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Amanda N. McKeirnan

Name

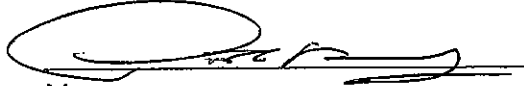
Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be "Eric Banks", written over a horizontal line.

Name

ETIKBANKS ALASKA

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Joseph Martin
Name

Salcha, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Steven L. Avery, St. L. Avery
Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Eric Richardson
Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Michael L. Haiss

Name [Signature]


FARRANKS, AK. 99709

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

Fairbanks Ak
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Elizabeth Gasses

Name


Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Philip Long 
Name

Fairbanks AK
City, State

To Whom it May Concern,

I do not support House Bill 40. The use of electronic cigarettes is not smoking, and should never be classified as such. By definition alone, smoke is created during combustion, and there is no combustion in said devices. A definition change as such has a detrimental effect on technology that has the potential to save millions of lives. New research is daily released stating that electronic cigarettes are safer than traditional cigarettes, including the effects on bystanders.

Brandon Fears

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you

Felix Lopez
Name

North Pole AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Cameron Washburn

Name

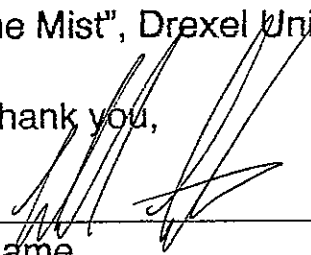
Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name



City, State

North Pole AK

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Blake Fowler
Name

Fairbanks AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

JACOB FISCHE

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Eric Collins II
Name

Ketchikan, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Linda Schmall

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Matt Shapiro

Name

Ft. Belson AFB, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Carrie Graham

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Konrad

Name

BOLZ

City, State

TWO RIVERS, AK

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Kirill Alexeev

Name

Fairbanks Alaska

City, State

X Kirill

01-31-15

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

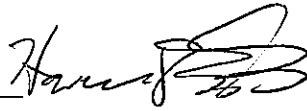
Charles Mills / [Signature]
Name

Fairharts AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Harrison DeSant 

Name

Fairbanks, Ak

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Kathleen Sutherland
Name

Lasbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Michael Dunlap

Name

North Pole, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Elvin Wilson-Marlow

Name

Fairbanks, Alaska

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Danny Somers
Name

Anchorage, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

James Marden III

Name

Fairbanks AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Michael S. Renta

Name

Fairbanks, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Joseph P. Cavasina
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jordan Chandler
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

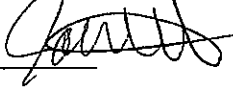
Roy BARLOW
Name

NORTH POLE, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

JOE BRACONE 
Name

FAIRBANKS, ALASKA
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Tyler Pack

Name

Fairbanks AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

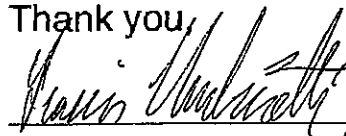
Dani Fint
Name

Friedberg, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name Travis Unbinetti

North Pole, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Danny Ruey 
Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Miguel Berrios
Name

North Ddc 19K
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,



Name




City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Julia Conaway 
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Regina Rodgers
Name

Fairbanks AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Johnny Rodgers
Name

Fairbanks AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Dylan Platz

Name

Fairbanks, AK

City, State

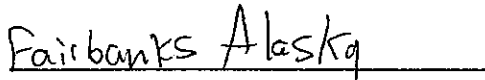
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be "C. M. O'Neil", written over a horizontal line.

Name


The words "Fairbanks Alaska" written in black ink over a horizontal line.

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

John Schreck 
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Tyler Wood
Name

North Pole, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Adam Lay
Name

Fairbank, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Carolyn Lang
Name

Fairbanks, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

COREY D Allen 
Name

Anchorage AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jessi Walton - jessi.walton
Name

Fairbanks, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Anthony LaBene
Name

Philadelphia, PA
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

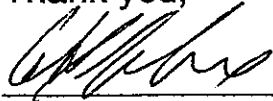
Quincy E. Winston
Name

Fort Wainwright, AK 99703
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be "C. J. [unclear]", written over a horizontal line.

Name

FAIRBANKS, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

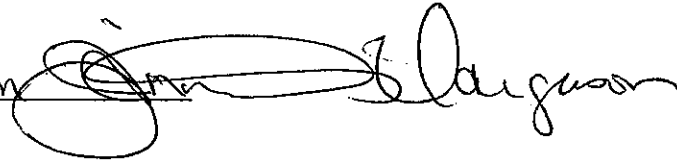
Eric Vargason Eric Vargason
Name

North Pole AK 99705
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jennifer Vargason 
Name

North Pole, Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

RICHARD JONES

Name

NORTH POLE, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

LANE DAVE 

Name

FAIRBANKS, AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

ALEX McDaniel

Name

Salt Lake, AK

City, State

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nancy Caudure
Name

Vasilli Dr. Egg River AK.
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

MIKE RICE

Name

13521 DAVIS DR. EAGLE HOUER, AL

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Rodney Grasse

Name

16739 Jackson Hole ct Eagle River, AK
Address 99577

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Stephen D. Doherty
Name

76943 Haman Dr #3
Address Eagle River AK 99507

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

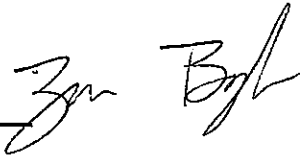
Kandi Parris
Name

16618 Elcomom st Eagle River AK 99577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Zach Boyles 
Name

22317 Shadowy Spruce Dr.
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kelly Clark Kelly Clark
Name

10994 Hannah Jane
Address 99577

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nate Davis
Name

1200 B Townsend Dr JDER, AK 99505
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

DANIEL LANSBORN

Name


1971 EARLY VIEW DR ANCH, AK 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Harie Hagg 
Name

15020 Terrace Ln
Address Eagle River
AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Seth Warnke

Name



25635 Berryhill Rd 99577 eagle River AK

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Trishia Gilliland

Name



19712 Driftwood Bay Dr.


Address

Eagle River AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Justin Ballard 

Name

13900 Old Glenn Hwy, AK, 99577

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Aiko Pyziak
Name

22050 Sampson Dr
Chugiak, 99567
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jonnie B Boyer II

Name

6685 Daws St Eagle River AK 99577

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Travis Douglas
Name

12341 LAKE ST #2 Eagle river AK 99577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Bamla' Jones
Name

10012 Baffin St- ER., AK 99577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Cott Cline

Name

4901 Epping Court

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

James Pearson

Name

17128 Hideaway Ridge Dr.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jacob Wagner

Name

10107 wildwood st

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Benjamin Nguyen

A handwritten signature in black ink, appearing to be 'Benjamin Nguyen', with a long horizontal line extending to the right.

Name

132 WANOOK circle

ANCHORAGE, AK 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Greg Doersch
Name

24557 Park Dr. Chugiak, AK, 99567
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

621 W Daren Dr. Palmer AK 99645
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Lay Frasca
Name

161 Patterson St Anchorage AK
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kimberly A. Ornel
Name

8913 Northwood Park Cir. 99577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jeremy Frelone
Name

7751 Chamdalar
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Virgil Schumacher
Name

16929 Hanson Dr Eagle River AK 99577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Sherm Howal

Name

11546 Heritage Ct #2

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

~~KAM Miller~~

Name


11540 Horridge Ct. Unit #2

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

ASHLEY VARGHESE 
Name

5535 NORTH STAR ST.
ANCHORAGE, AK
99518
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in black ink, consisting of several fluid, overlapping strokes, positioned above a horizontal line.

Name

8005 Chennault Ave Unit 1726, Jersey AK 99506

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Devon Dante Senders

Name

7005 Gold Kings Ave unit C Anchorage Ak, 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

WILLIAMS HALL

Name

6459 DONCASTER DR, ANCHORAGE 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Avon Cardwell
Name

3801 Cavell Dr Anchorage AK 99504
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nicholas Larivee

Name

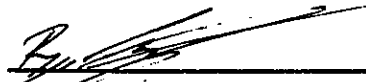
4411 Spenard Rd. 99517

Address


To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,



Name



Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Iver P. Nore

Name

1327 Medfra St.
Anchorage, A.K
99520

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Taylor DAVIS
Name

4812 Wesleyan Ave, AK, 99508
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jennifer Evans

Name

2702 Forest Park Dr

Address

Anch. AK 99517

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jordan Brannon

Name

1730 S Heather Meadow Loop anchorage, AK 99507

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ryan Austin

Name

15040 old Seaward Hwy

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Andrew McPeck
Name

5350 Larkspur St
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

ANDREW Z. AKUBAE
Name

2397 WALDRON DR

ANCO AK. 99507
Address

↑ ID
11791923

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jeremy Norman

Name

2430 Florence Ct. Ancker Ar 92502

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kelly Merritt,
Name

1241 Inlet Place
Address
Arch. Atr.

99501

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ben Bersen
Name

808 E 36th Ave
Address Anch 99503

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

AUSTIN BETTS
Name

808 36th Ave
Address Anchorage Ak
99503

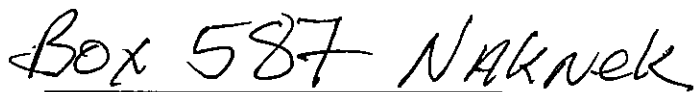
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in dark ink, appearing to read "W. D. Acyl", written over a horizontal line.

Name

A handwritten address in dark ink, "Box 587 NAKNEK", written over a horizontal line.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

RYAN JANOWSKI
Name

500 W POTTER DR ANCHORAGE
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

John M. Grace
Name

17431 Braugolaisin
Address
Eagle River, AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Sean Yi
Name

3332 Morgan Loop.
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

1161 Ridgecrest Dr Anchorage AK 99516
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kayla D Kemperre
Name

8347 Sandi dr
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Michael Teeple
Name

10251 Arborvitae Dr.
Anch AK 99507
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Russell P. Weidler

Name

6614 E 11th AVE #B ANCHORAGE AK 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jean-Paul Roulet D

Name

1510 W 47th Ave Unit B
Anchorage, AK 99503

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Butch Ferry
Name

4920 Clint Cir Anchorage AK 99503
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Brian Carberry
Name

1535 Harriet Court
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Stephanie Rospisil
Name

3061 Armstrong Cir Apt B
Address

BER, AK 99506

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Alison Halpin
Name

2397 Waldron Dr
Anchorage AK 99507
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Michael A Miranda

Name

10043 Explorer Circle
Anchorage, Alaska 99515

Address

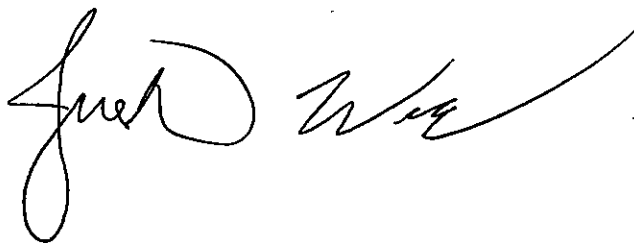
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Justin Ward

Name

A large, stylized handwritten signature of Justin Ward, written in black ink.

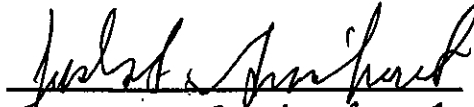
P.O. Box 873546 Wasilla, AK 99687

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name JACK A. SWIHART

1601 A. EAST MISSECT.
Address ANCHORAGE AK
99508

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Aaron Petersen

Name

1709 Bellevue loop Anchorage, AK 99515

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kenneth Sadce

Name

8009 Bearberry St Germantown

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Roland N. Rea

Name

10121 Caribou St.

Address Eagle River, AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Johnny WARREN
Name

3806 W. 78th AVE.
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Brandon T. Lukovishkoff
Name [Signature]

2700 W 32nd Ave Apt. #4
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Alisha Smith
Name Alisha Smith

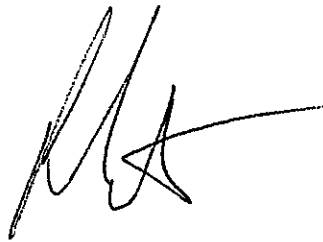
2700 W. 32nd Ave Apt H4
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ryland Staples
Name



10136 Louis Pl. 99577
Address

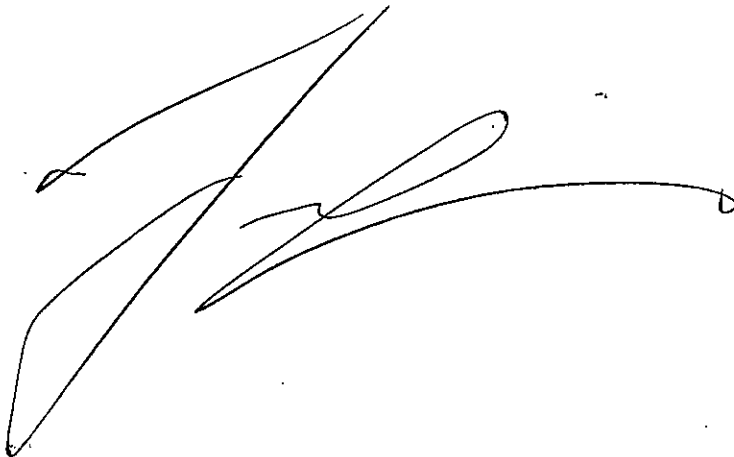
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

JAMES BRIGGS
Name

905 RICHARDSON VISTA RD. APT #246
Address ANCHORAGE, AK 99501

A large, stylized handwritten signature, likely of James Briggs, consisting of several sweeping, interconnected strokes.

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Steven Holden
Name

965 Richardson Vista #240
Address Anchorage, AK 99501

A large, stylized handwritten signature, likely of Steven Holden, written in black ink. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Derrick White
Name

1834 Juneau Dr #1
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Thomas André IV

Name

713 W 45th Ave #3

Address

Arch

AK

98203

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ethan Wayne
Name

2700 W 32nd Ave Anchorage AK 99517
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Stacy Lundy
Name

9499 Brayton Dr # 218
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Setor L Hertz III

Name

7301 Duxenda Cir

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Bradley Honsinger

Name

1230 E 9th Anchorage, AK 99501

Address

Dear sirs,

We would like these letters entered as a document of opposition to SB1.

Thank you for your time and service.

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

JUSTIN SHOUP
Name

101 PATTERSON ST APT 717
Address ANCHORAGE AK 99501

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Loth Sayavong
Name

4121 Crannery St
Address Airc # 99502

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Cham Saelee

Name

5901 East 6th

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jesse Inhabandith

Name


3240 Penland #210

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Sunny Bowasri 
Name

228 Park St Anch, AK 99508
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Juanita Morgan
Name

1420
Portage Cir. + Suncrest, Anch. 99575
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Caitlyn Morris

Name

818 W. 74th Ave

Address Anchorage, AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Stephen Souleboth
Name

3210 Portland Ave #251
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be "David Sh", written over a horizontal line.

Name

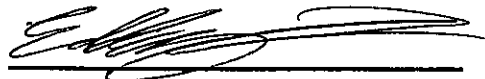
A handwritten address "4101 Cope #4" in black ink, written over a horizontal line.

Address

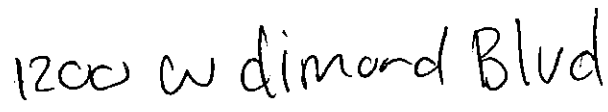
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be "Ed [unclear]", written over a horizontal line.

Name

A handwritten address "1200 W diamond Blvd" in black ink, written over a horizontal line.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

MUSTAF KIZDILLE

Name

775 Washington 98104

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Erik Ahn
Name

1421 Twining Dr
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

David T Ward

Name

3206A Maricel place

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

William Hill
Name

3811 Checkmate Dr.
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jeff Furman

Name

1123 W 30th # 4

Address Anch AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Joshua Speers

Name

7100 Lakeview #20

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

chris sagasar
Name

112 Friendly
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Michael Khotprathoum

Name

509 N Park st

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nathaniel Neru

Name

3700 Carleton Ave

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Bernie Obas
Name

3540 Hooper Circle
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Shanelle Jimenez

Name

340 E. 45th Ave #2

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kimberly Ganancial

Name

340 E. 45th Ave #2

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Lamphay Shukla
Name

732 Wynn St #A
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kimberly DelosReyes
Name

340 East 45th Ave Apt #2
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jessa Villaseñor
Name

340 East 45th Ave Apt #2
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Bobby Khotprathoom
Name

600 N PARK ST
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Eric Kemeroff
Name

32406A Meric1 pl
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jeremiah Ramos
Name

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Chelsea Nuevo

Name



Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Rex Sackee

Name

Rex Sackee

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Christina Bylund
Name

5706 S. tahiti loop AK
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Erik Norden

Name

681 W. 34th St # 516

Address

Anchorage, AK

99503

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Craig Lematta
Name

~~0000~~ 10621 cutter cir 99519
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Bailey Trent
Name

~~2430~~ 2430 Tagalak Dr
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Yessenia Ontarvas

Name

3869 W. 74th Ave

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Eric Rodriguez
Name

2321 Arnel circle Anchorage AK 99515
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jefferson Stephenson

Name

1938 Terrebonne Loop

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Steven Sweden II

Name

1248 Ica Drive

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Brandon Rottis
Name

220 Yorkshire Lane
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matthew Harris

Name

3805 W 79th Ave. unit #3

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Roderick L. Jackson

Name

4207 Greenland Dr #1 Anchorage, Ak 99517

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matthew J. Burke-Willard

Name

4207 Greenland Dr. #1

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nicole Machkovich

Name

3435 Huffman Road

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Chad Sanders

Name

16227 JaneTome Dr #608

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kimberly Hopper
Name

9191 Old Seward Hwy Unit 14 Anchorage Ak 99515
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

SAM PETERSON

Name

1300 BISCANE CIRCLE, ANCHORAGE, AK 99516

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Aerial Pileg
Name

17314 Adams Ln Eagle River
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ambera Tolbert
Name

7231 Durenda Cir
Address

A/A 99507

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Josh Helmgren
Name

12301 Heritage Rd Anchorage AK 99516
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Claron Westertin

Name

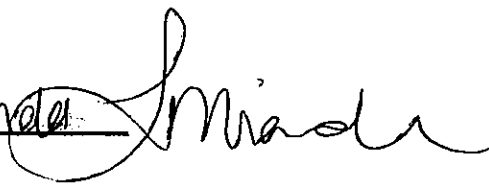
8501 Crystal St Anchorage AK 99502

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Tiffany Miranda 
Name

10043 Explorer Circle
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

STEVEN BURTON

Name

202 N. KLEVIN ST #C3

Address ANCHORAGE, AK 99508

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Rebecca GEOROS

Name

7751 Saguar Circle Anch. AK 99502

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

J Dato Jacqueline Dato
Name

7333 bern st Anchorage AK 99507
Address

In the Alaska House, Representative Bob Herron (D-Bethel) has introduced a bill (HB 40) to add "using an e-cigarette" to Alaska's definition of "smoking." In contrast to SB 1, HB 40 would not expand Alaska's existing smoking ban. It is not only wrong to define the use of a smoke-free product as "smoking," but any future changes to Alaska's smoking ban would automatically also include vaping

Please Take action to oppose this bill, fill out the info below and this form will be sent as testimony to your opposition of this bill.

Brenda Batzner

*Please print first and last name

6150 wild mountain Drive

Address (optional)

Eagle River Alaska

99577

* City and State

*Zip Code

brendabatzner85@yahoo.com

Email address (optional)

907-854-0355

Phone No. (optional)

Brenda Batzner

*Signature

In the Alaska House, Representative Bob Herron (D-Bethel) has introduced a bill (HB 40) to add "using an e-cigarette" to Alaska's definition of "smoking." In contrast to SB 1, HB 40 would not expand Alaska's existing smoking ban. It is not only wrong to define the use of a smoke-free product as "smoking," but any future changes to Alaska's smoking ban would automatically also include vaping

Please Take action to oppose this bill, fill out the info below and this form will be sent as testimony to your opposition of this bill.

Bret Lang
*Please print first and last name

10105 Crestview Ln
Address (optional)

Eagle River AK
* City and State

*Zip Code

Lang - Bret @ yahoo.com
Email address (optional)

Phone No. (optional)

Buzguy
*Signature

In the Alaska House, Representative Bob Herron (D-Bethel) has introduced a bill (HB 40) to add "using an e-cigarette" to Alaska's definition of "smoking." In contrast to SB 1, HB 40 would not expand Alaska's existing smoking ban. It is not only wrong to define the use of a smoke-free product as "smoking," but any future changes to Alaska's smoking ban would automatically also include vaping

Please Take action to oppose this bill, fill out the info below and this form will be sent as testimony to your opposition of this bill.

JEREMY JENKINS

*Please print first and last name

18107 MAC LARSEN ST. UNIT B

Address (optional)

EAGLE RIVER, ALASKA

* City and State

99577

*Zip Code

TROTUNORA@GMAIL.COM

Email address (optional)

(907) 538-8148

Phone No. (optional)



*Signature

Alaska Call to Action: A bill has been introduced that threatens to ban vaping wherever smoking is banned!

Alaska Senator Peter Micciche (R-Soldotna) has again introduced a bill (SB 1) that would ban vaping by including it within Alaska's definition of "smoking." This provision is tucked inside a larger bill that would significantly expand Alaska's existing statewide smoking restrictions. If this bill passes, bars, restaurants and workplaces throughout Alaska will no longer be able to decide for themselves whether to allow or disallow vaping.

Last year, a bill nearly identical to SB 1 was introduced and made its way through two Senate committees before stalling in the Senate Finance Committee. Unlike last year's bill, SB 1 includes an exemption for vape shops. However, SB 1 still deceitfully redefines "smoking" to include the use of a smoke-free product and needlessly makes vaping in indoor and outdoor environments a fineable offense.

**** SB 1 has been assigned to the Senate Health and Social Services Committee. At this time, no hearing has been scheduled. We will update this Call to Action as we learn more..**

Please take action now to oppose this bill, fill out the info below and this form will be sent as testimony to your opposition of this bill.

Brenda Batzner

*Please print first and last name

6150 Wild Mountain Drive

Address (optional)

Eagle River Alaska

99577

* City and State

*Zip Code

brendabatzner85@yahoo.com

Email address (optional)

907-854-0355

Phone No. (optional)

Brenda Batzner

*Signature

Alaska Call to Action: A bill has been introduced that threatens to ban vaping wherever smoking is banned!

Alaska Senator Peter Micciche (R-Soldotna) has again introduced a bill (SB 1) that would ban vaping by including it within Alaska's definition of "smoking." This provision is tucked inside a larger bill that would significantly expand Alaska's existing statewide smoking restrictions. If this bill passes, bars, restaurants and workplaces throughout Alaska will no longer be able to decide for themselves whether to allow or disallow vaping.

Last year, a bill nearly identical to SB 1 was introduced and made its way through two Senate committees before stalling in the Senate Finance Committee. Unlike last year's bill, SB 1 includes an exemption for vape shops. However, SB 1 still deceitfully redefines "smoking" to include the use of a smoke-free product and needlessly makes vaping in indoor and outdoor environments a fineable offense.

** SB 1 has been assigned to the Senate Health and Social Services Committee. At this time, no hearing has been scheduled. We will update this Call to Action as we learn more..

Please take action now to oppose this bill, fill out the info below and this form will be sent as testimony to your opposition of this bill.

Bret Lang
*Please print first and last name
10105 Crest view Ln
Address (optional)
Eagle River ak
* City and State
Lang Bret @ yahoo.com
Email address (optional)

Phone No. (optional)

Buzzy
*Signature

Alaska Call to Action: A bill has been introduced that threatens to ban vaping wherever smoking is banned!

Alaska Senator Peter Micciche (R-Soldotna) has again introduced a bill (SB 1) that would ban vaping by including it within Alaska's definition of "smoking." This provision is tucked inside a larger bill that would significantly expand Alaska's existing statewide smoking restrictions. If this bill passes, bars, restaurants and workplaces throughout Alaska will no longer be able to decide for themselves whether to allow or disallow vaping.

Last year, a bill nearly identical to SB 1 was introduced and made its way through two Senate committees before stalling in the Senate Finance Committee. Unlike last year's bill, SB 1 includes an exemption for vape shops. However, SB 1 still deceitfully redefines "smoking" to include the use of a smoke-free product and needlessly makes vaping in indoor and outdoor environments a fineable offense.

** SB 1 has been assigned to the Senate Health and Social Services Committee. At this time, no hearing has been scheduled. We will update this Call to Action as we learn more..

Please take action now to oppose this bill, fill out the info below and this form will be sent as testimony to your opposition of this bill.

Jeremy Jenkins
*Please print first and last name
18107 Mac Laren St Unit B
Address (optional)
Edge River, Alaska | 99577
* City and State | *Zip Code
TROTUNORA2010@GMAIL.COM
Email address (optional)
(907) 538-8129
Phone No. (optional)


*Signature

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Artem Ballbed
Name

William Campbell / Palmeriak Galt
Address

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you, *Todd Woodward*

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Darian White
DW

Name

Heborage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guiness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Corey Dabie
Name

Anchorage, Ak
City, State

[Signature]

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

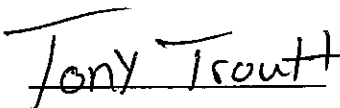
Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guiness64 <jmfinney64@gmail.com>
Subject: Form Letter

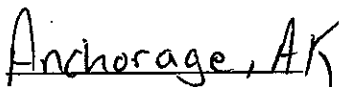
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,



Name



City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

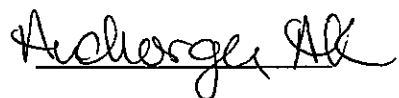
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,



Name



City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Erin Olivas

Name

Anchorage AK

City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Ron Johnson
Name

Anchorage AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Miriam Carpin
Name

Anchorage Alaska
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

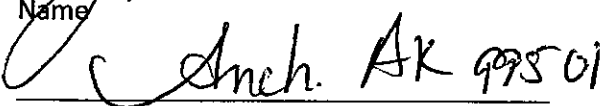
Parrish Campbell
Name
Anch. AK 99501
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Lima Sug95
Name

Anch Ak
City, State

99501

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Cardinal Murrel
Name

IBER, AK
City, State

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Hughey De'Dreon
Name

SEER AK
City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Anthony Fields

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

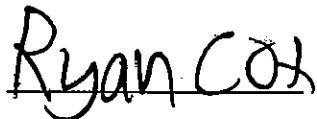
Begin forwarded message:

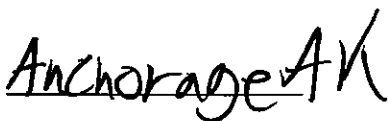
From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State



Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

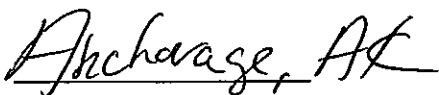
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to read "David G. Smith".

Name

A handwritten signature in black ink, appearing to read "Archavase, AK".

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name

Anchorage, AK 1/30/15

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

MARIAH HAMILTON

Name

ANC, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

ALBERTO DIZON JR

Name

ANCHORAGE AK

City, State

andjor

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Irving Salazar

Name

Anchorage, Alaska

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Roy Sanders

Name

Anchorage, AK

City, State



Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

RYAN ANDREWS

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jonathan James

Name

Anchorage, Ak

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

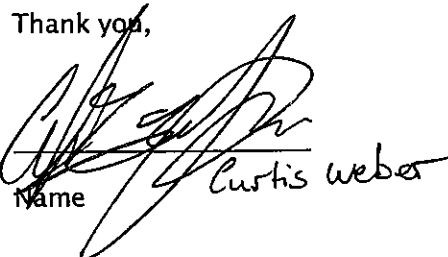
From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name


Curtis Weber

Anchorage, Alaska

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Ashley Aulie

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Samantha Sears

Name

Anchorage, AK

City, State

JK DS

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

AMANDA M. BALMACEDA

Name

ANCHORAGE, ALASKA

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guiness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Giovanni Sanchez

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**

From Jason Finney <jmfinney64@gmail.com>
aj@sumovapor.com <aj@sumovapor.com>
2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Ross Brinkerhoff

Name

Anchorage, Ak

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Ricky Miochey

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Thomas Sledge

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Curtis Bish

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

PETER ABRAHA

Name

ANCHORAGE AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

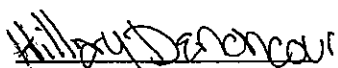
Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

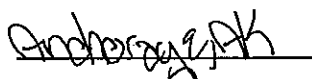
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to read "Hilary Denoncar", written over a horizontal line.

Name

A handwritten signature in black ink, appearing to read "Andrew J. Ph", written over a horizontal line.

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Tamara Dizon

Name

Anchorage AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Joshua Cremonese

Josh C.

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Daniel Colaiex

Name

Anchorage Ak

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone


Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Benjamin Sissel 

Name

Chugiak, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Greg SALUDARES

Name

Anch, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Martha E. Amizn

Name

Eagle River, AK

City, State

Subject **Fwd: Form Letter**

From Jason Finney <jmfinney64@gmail.com>

To aj@sumovapor.com <aj@sumovapor.com>

Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>

Date: January 22, 2015 at 11:46:46 AKST

To: Guinness64 <jmfinney64@gmail.com>

Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Bradley Woodworth

Name

Anchorage AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

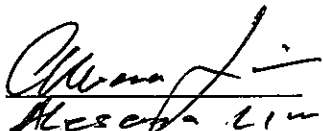
Begin forwarded message:

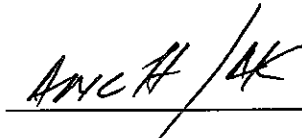
From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

William Xiao

Name

ANCHORAGE AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink that reads "Kalei Carter". The signature is written in a cursive, somewhat stylized font.

Name

A handwritten signature in black ink that reads "ANC, AK". The signature is written in a cursive, somewhat stylized font.

City, State

Subject **Fwd: Form Letter**

From Jason Finney <jmfinney64@gmail.com>

To aj@sumovapor.com <aj@sumovapor.com>

Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>

Date: January 22, 2015 at 11:46:46 AKST

To: Guinness64 <jmfinney64@gmail.com>

Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be "J. Finney", written over a horizontal line.

Name

A handwritten signature in black ink, appearing to be "Anchorage, AK", written over a horizontal line.

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

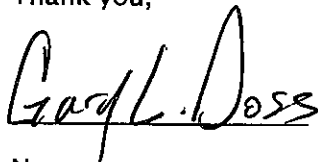
Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

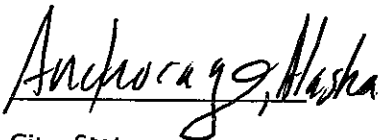
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,



Name



City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Shane Norvell

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Andrew Fox

Name

Anchorage AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Steve Vu

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone


Begin forwarded message:

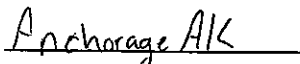
From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Zain C. Mason

Name

Anchorage AK.

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name *Hao Lai Chew*

Anc. Ak

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

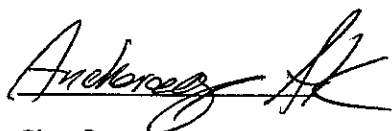
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink that reads "Nick Candell".

Name

A handwritten signature in black ink that appears to read "Andrew".

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Alx Collamore

Name

wasilla AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

MARK S.

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone


Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name

Anchorage, AK
City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be "Jason Finney", written over a horizontal line.

Name

A handwritten signature in black ink, appearing to be "Anchorage AK", written over a horizontal line.

City, State

Subject **Fwd: Form Letter**

From Jason Finney <jmfinney64@gmail.com>

To aj@sumovapor.com <aj@sumovapor.com>

Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>

Date: January 22, 2015 at 11:46:46 AKST

To: Guinness64 <jmfinney64@gmail.com>

Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink that reads "Karla Lumen". The signature is written in a cursive, flowing style.

Name

A handwritten signature in black ink that reads "Anch, AL". The signature is written in a cursive, flowing style.

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Pamela M. Lumen

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Lisa Woods

Name

Valdez, AK 99686

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Crystal Renicker

Name

Anch, Ark

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

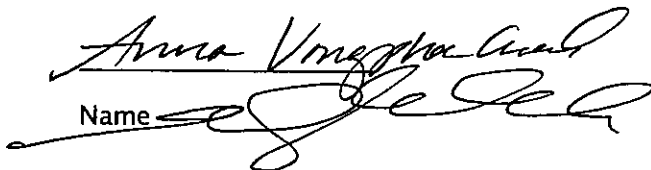
Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jason Finney

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

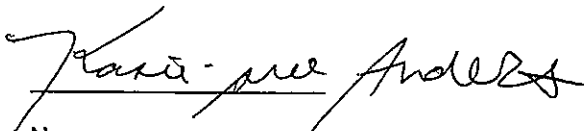
Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

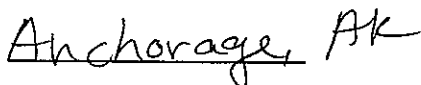
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,



Name



City, State

Subject **Fwd: Form Letter**

From Jason Finney <jmfinney64@gmail.com>

To aj@sumovapor.com <aj@sumovapor.com>

Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>

Date: January 22, 2015 at 11:46:46 AKST

To: Guinness64 <jmfinney64@gmail.com>

Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

RONALD LOHODILU

Name

JBER AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

JEFF LESUE

Name

Engle River, AL

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Kriss E Wright-Poirier

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Name

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

William Dunton

Name

Eagle River AK 99577

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Michael V. Zwarg

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Amanda Fowlkes

Name

Anchorage, AK

City, State

Subject **Fwd: Form Letter**

From Jason Finney <jmfinney64@gmail.com>

To aj@sumovapor.com <aj@sumovapor.com>

Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>

Date: January 22, 2015 at 11:46:46 AKST

To: Guinness64 <jmfinney64@gmail.com>

Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Branden Kressly

Name

anchorage AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Magnus Pederson
Name

Anch / AK
City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Kevin Piscoge

Name

Anchorage, Alaska

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Wm Massin

Name

Anch AK

City, State

Subject **Fwd: Form Letter**

From Jason Finney <jmfinney64@gmail.com>

To aj@sumovapor.com <aj@sumovapor.com>

Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>

Date: January 22, 2015 at 11:46:46 AKST

To: Guinness64 <jmfinney64@gmail.com>

Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

MARK CREMONESE

Name

Mark Cremonese

ANCHORAGE AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

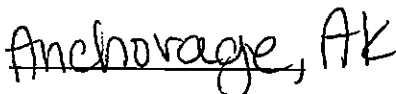
From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,


Name


City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guinness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

Jacob Meelen

Name

Anchorage AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

KEITH AVERY

Name

ANCHORAGE, AK

City, State

Subject **Fwd: Form Letter**
From Jason Finney <jmfinney64@gmail.com>
To aj@sumovapor.com <aj@sumovapor.com>
Date 2015-01-26 18:40



Sent from my iPhone

Begin forwarded message:

From: "Guiness64 ." <jmfinney64@gmail.com>
Date: January 22, 2015 at 11:46:46 AKST
To: Guinness64 <jmfinney64@gmail.com>
Subject: Form Letter

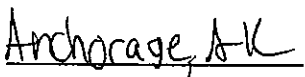
To Whom it May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through the Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to read "Xavier Medley", written over a horizontal line.

Name

A handwritten signature in black ink, appearing to read "Anchorage, AK", written over a horizontal line.

City, State

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ashley Wachira
Name

533 North Lane Apt 4
Address

Anchorage AK 99508

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

JASON TAVARES
Name

533 NORTH LANE APT 4
Address
ANCHORAGE AK.

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Louie Cranwell III
Name

5360 lake of the portway
~~3650~~
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Russell Forsley

Name

1504 Columbine St.
Anchorage, AK 99508

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Daniel Ainsworth
Name

760 Strawberry cottage way
Address
99508

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jaslyn Bynum
Name

5142 E 26th Ave. Anchorage, AK 99508
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Terrence H Turkelson
Name

1905 AS Bronco Circle
Address Wasilla AK 99654

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Tanya Kandzer
Name

3111 Spinnaker Dr Anch AK 98516
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matthew Lombay
Name

6445 Coachman circle
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Steven C. Lozano
Name

8810 Forest Village Drive
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Philip Hawkins

Name

705 Quartermaster Rd

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ezequiel Olguin-Ferreira
Name

705 Quatermaster Rd P.O. Box # 3077
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

LEE SORIANO
Name

1929 E 58TH AVE ANCHORAGE, AK 99507
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matthew Rogers

Name

7740 Big Spruce Circle

Address

Anchorage, AK 99502

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

CORBIN SHURAVLOFF

Name

1510 LILY POND CIRCLE

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

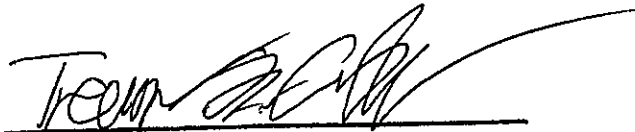
Raymond Lee
Name

1200 W. Diamond Blvd #
Address

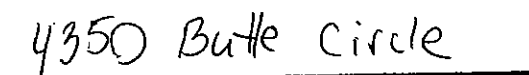
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to read "Team SECH", written over a horizontal line.

Name

A handwritten address "4350 Butte Circle" in black ink, written over a horizontal line.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Scott Garcia
Name

1835 E Tudor
Address

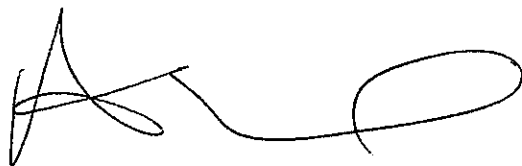
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Amber Webber
Name

1835 E Tudor Avenue
Address

A stylized handwritten signature, possibly reading "A. Webber", consisting of a large capital 'A' followed by a series of loops and a long horizontal stroke.

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jermaine Campbell
Name

2823 E. Tudor
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Tom Sigler
Name

2901 W. 42nd Apt. B
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Torn Saelee
Name

1101 Eagle St. 5
Anchorage, AK. 99501
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Edwin Escalante
Name

7637 Regal Mountain Dr Anchorage, AK 99504
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Rory Sisti
Name

9499 Brayton Dr. #244
Address

Anch, AK 99507

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Devin Hickey
Name

5209 Denoir St. NW Anch, AK 99518
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Sean Rasmick
Name

1716 Juneau Dr, Anch, AK 99501
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Mullen Mullen
Name

6962 Terry St
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

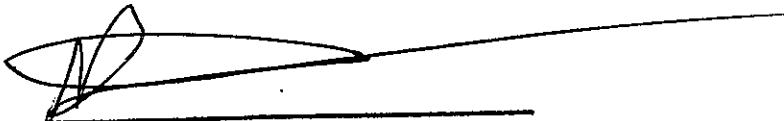

Name

6962 Terry St.
Address

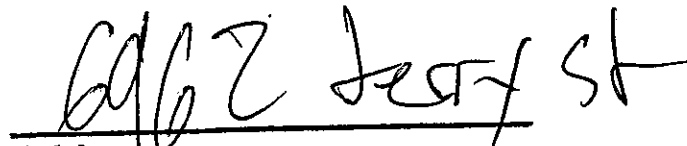
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A stylized handwritten signature, possibly reading "JD", written in black ink.

Name

A handwritten address in black ink, which appears to be "6962 Jersey St".

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Espinosa, Ernest C.

Name

7330 Tanaga Circle Apt 1

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

John Sayarong
Name

2106 Cleveland Ave Apt #4
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Richard Mounlasy
Name

7100 Lake O'S Pkwy #39
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

James Voyle

Name

1248 Gambell

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,



Name

4312 Penguin St 99503
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Karleen Labuen
Name

4312 Penguin St Apt #1 99503
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

LIEN SAELEE
Name

PO BOX 90796
ANCHORAGE, AK 99509
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jason Ocampo

Name

LEAH CT ARLINGTON
9750 E

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Lisa Brinkerhoff
Name

4301 Seeley circle
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Deonda L. Sherman
Name

4301 Seely Cir.
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Dean Clark
Name

6400 E 16th
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

TAYLOR ZAVACKY
Name

1151 E. 76TH AVE
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

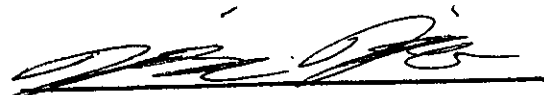
Cleo Reyes
Name

1551 State St A4 99504
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,



Name

370 Klevin St
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

 Lamar Bradley
Name

5448 Goodwin Ave
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Brandon Johnpier
Name

5948 Goodwin Ave
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Michael Hammer
Name

642 W. 34th AVE

Address

Anchorage, AK 99503

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Krystilla Cha
Name

5901 E 6th Ave, Space 316
Address

Anchorage, AK 99508

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Christa Almario
Name

4520 Campbell Park Loop
Address Anchorage, AK 99507

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

John Repasky
Name

1040 W 27 AVE 99503
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Bailey Repasky
Name

1040 w 27th Ave 99503
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Amber Easley

Name

5740 E4th Ave

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jonathan A. S. Sexson

Name

1204 Norman St Apt 47

Address Anchorage AK 99509

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Heather Alonzo

Name

11821 Portage Circle Anchorage AK 99515

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

David H. Baur III
Name

3509 Dorbrandt St. Apt #4
Address
Anchorage, AK
99503

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

KIM TERAVNE
Name

3168 DOWSON Anch AK
Address 99503

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Claudia Gore
Name

12901 Troy St
Address 99515

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

R F Redmond

Name

PO Box 240385 Anch AK 99524

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Kristy Peterson
Name

Po Box 166, Hope, AK 99605
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

Travis Peterson

Po Box 166 Hope, AK 99605
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ryan Jones

Name

Ryan Jones

Address

3450 Karwin Bay Circle 99515

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Luke Whittington
Name

131 Patterson St # 508 Anchorage AK 99504
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Patricia Whittington
Name

131 Patterson St Apt 508 Anc, AK 99504
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Felicia Johnson

Name

2500 Sentry Dr Apt 103 Anch. AK.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

~~///~~ Douglas McCullough
Name

2500 SENTRY DR Apt 103
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nicole Blondeau

Name

9200 Independence Dr. Apt 109

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Erin Heger

Name

3901 HayerST Anchorage Alaska 99503

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kris HANDY

Name

940 e 43rd Ave unit 2 wassilla AK 99654

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

JUSTIN FANLEY

Name

6510 KARA SUE LIT
ANCHORAGE AK 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

TRENT PILAND

Name

ANCHORAGE, AK 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

MARK ROZEM

Name

933 E 46TH CT APT A ANCHORAGE AK 99503

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ezra Cuevas

Name

6701 spruce st #11

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ronnie Mitchell

Name

7079 Fighter Dr. #1054 JBER, AK 99506

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

DOUGLAS M. LUAGNER II

Name

6980 CAMPOS AVE JBER, AK 99506

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

DAN RHOADS

Name

6571 HANNEGAN RD.

Address LYNDEN WA

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Allan Ileen
Name

11304 Via Balboa
Address Anchorage, AK 99515

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Pete David Daugherty
Name

6457 Whispering Loop Anchorage, AK 99504
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Sean Smith

Name

17641 Beaujolais Dr. Eagle River, Ak 99577

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Mike Ralston

Name

P.O-Box 231803 Anch 99523

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Andrew Banker

Name

1910 Cherokee Way 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Breanna Banicer
Name

1910 Cherokee Way, Anchorage, AK 99504
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Amy Green
Name

791 6th Street, TBER, AK 99505
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

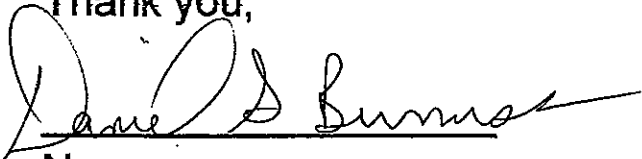
Kevin Doyle
Name

2202 Lincoln Ave. Anchorage, AK 99517
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in cursive script, appearing to read "Daniel D. Summers", written over a horizontal line.

Name

3344 BEAR RIDGE CIRCLE

Address EAGLE RIVER AK
99577

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Davis Anteson

Name

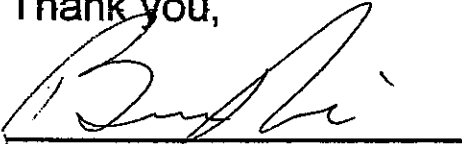
6124 E 12th Ave D3, Anchorage, AK 99504

Address

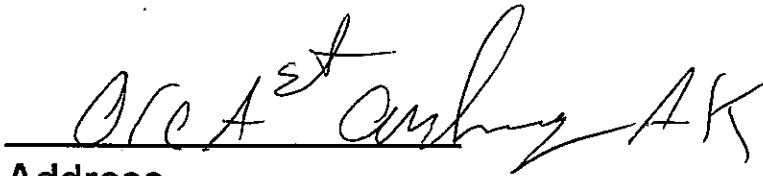
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in cursive script, appearing to read "Benji", written over a horizontal line.

Name

A handwritten signature in cursive script, appearing to read "Dr. Anthony AK", written over a horizontal line.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Fabian Quepons
Name

1608 moss creek Ave
Address Anc AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

William Elliott

Name

3464 Lunar Dr.
Anchorage, AK. 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Alex Asselin

Name

11700 Business Blvd

Address

Eagle River, AK 99577

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Paul David

Name

3470 W 8th

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Johanne Coliver

Name

702 W. 19th Ave

Address

Anchorage Alaska 99503

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Sergio A. Acuna

Name

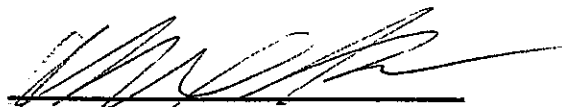
1108 eastern Northern lights

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in black ink, appearing to be 'M. J. Smith', written over a horizontal line.

Name

1108 Eastern Northern Lights

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Audra Hannek

Name

1341 Hillcrest Drive Anchorage Alaska 99503

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Lonon, Stephen
Name

688 D Street, JBER, AK 99505
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Randy Howe 11 
Name

8631 Pluto Dr. Anchorage, AK, 99507
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Daray Wright
Name

13640 Capstar Dr. Anchorage AK 99516
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

otton Boshall

Name

652 Pearl drive

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Logan Guinn
Name

3110 West 29th
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Zachary Stark
Name

8042 Rosebud circle 99502
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Zachary Seifert

Name

1103 W 30th Ave
Anchorage, AK 99503

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Victoria Setchell

Name

6621 Stella PL# 2 99507

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Robert Taylor

Name

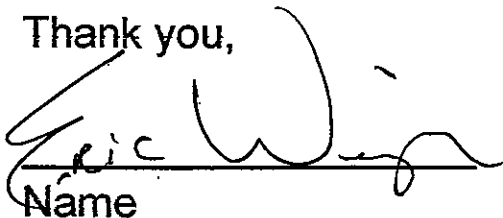
3405 Greenland Dr.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

4505 Spencer &
Ave AK
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Heath Boon

Name

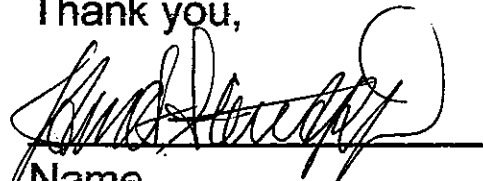
620 W 91st Ave Suite 105 99815

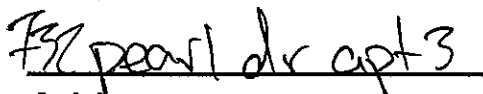
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name


Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matthew Gross

Name

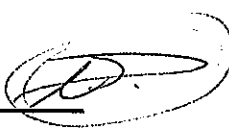
223. S. Silver Tip Dr

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ashley Palazzola 

Name

5800 Lake Otis Pkwy Apt. K366
Address Anchorage AK. 99507

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Gabriel Ortiz

Name

5800 LAKE OTIS PKWY #K-360 ANCHORAGE, AK 99507

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Graham Baker

Name

3608 Triik Avenue

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in black ink, consisting of a stylized 'K' followed by a long horizontal line.

Name

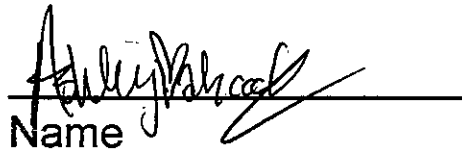
6321 wooded cir

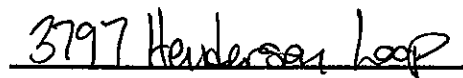
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name


Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

JOHN F. MILLER

Name



5900 TIMIAN AVE

Address

ANCHORAGE, AK 99507

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Marcus Stricklin
Name

1123 Russian Jack Dr
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Samantha Williams
Name

3644 W. 88th Ave #215
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Dorian Paul

Name

4029 Fahrenkamp Ave

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jordan Monk

Name

4105 Wilson St.

Address

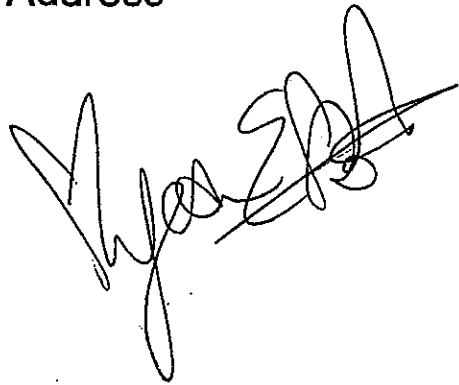
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Myra Botwin
Name

Anchorage AK
Address



To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Mark Norman
Name

4051 Talbot Dr.
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Brett E Smith

Name

7001 Seward Cir

Anchorage AK 99507

Address

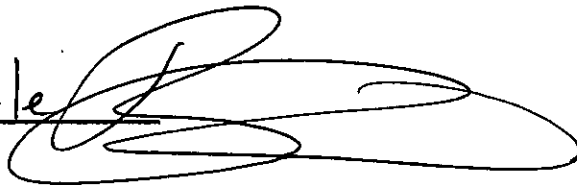
To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Brendan Doyle

Name

A large, stylized handwritten signature in black ink, appearing to be 'Brendan Doyle', written over a horizontal line.

2202 Lincoln Ave

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Chris Thomas

Name

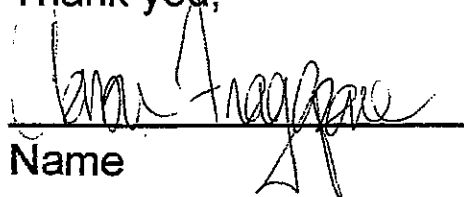
3806 Lois Drive, Anchorage, AK 99517

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

2160 Strawberry Rd #12
Anchorage, AK 99502
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Tami Cordora
Name

2939 Leawood Drive
Address

Anchorage, AK 99502

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jason Carter
Name

5503 Perry c/c Anch, AK
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,



Name

399 Farmers 100th rd. 99712

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Emilio Lanoza

Name

7024 Arnold Ave unit c Jber AK 99506

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jackie Southern
Name

9110 Ticina, ee Anch AK
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Robert Ortolano
Name

4545 Reka st. #B05, Anchorage, AK 99508
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nadine Rondeau

Name

11304 VIA BALBOA ANCH, AK 99515

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Dusty Ferrenburg
Name

1847 Becharaf
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

A handwritten signature in black ink, consisting of several overlapping, stylized strokes, positioned above a horizontal line.

Name

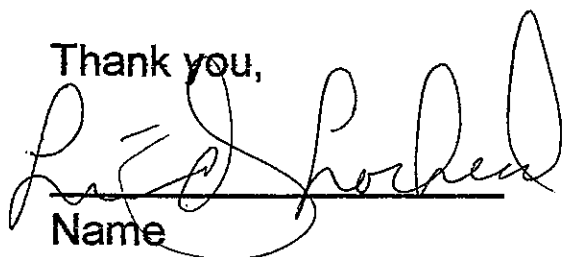
19362 Starflower Cir Chugiak, AK 99567

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

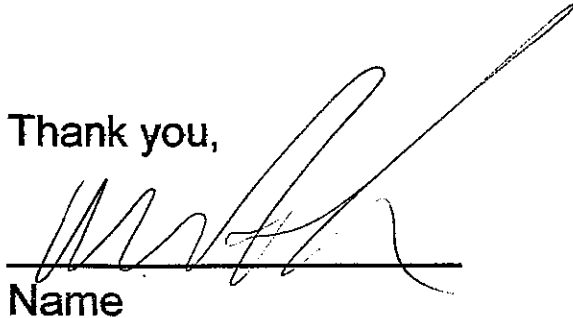

Name

ER Ak 92577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,



A handwritten signature in black ink, appearing to be 'M. H. H.', is written over a horizontal line.

Name

EDGE RIVER, Alaska

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Craig Pritchett
Name

1220 N Old Towne Dr,
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Leann Samanip
Name

11630 Hammer Bay LP
Address Eagle River AK, 99577

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

P.O. Box # 870116
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

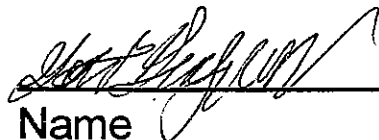
Bret Lang
Name

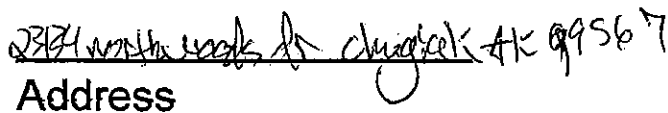
10105 Crest View Lane
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name


Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Michael Snow

Name

8936 Anneville

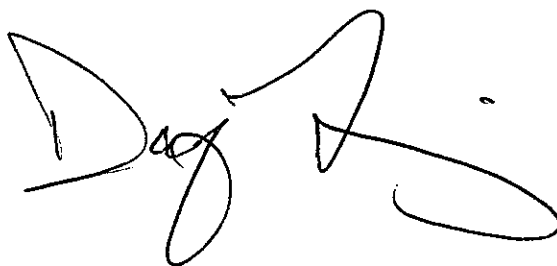
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Dag Travis
Name



22722 Chamber Ln Chugiak, AK 99567
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

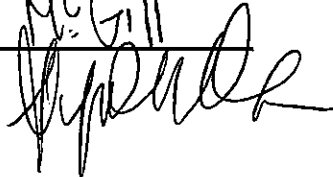
TONY GONCALVES
Name

24915 HAMANN RD EACHERIVER 99577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

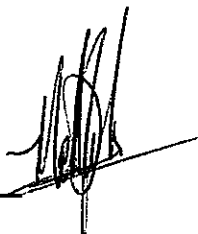
Alyssa McGill
Name 

19701 Waw Admiral Rd
Address Eagle River, AK
0909-17

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matthew Juba 
Name

1135 W 8th Ave #8 Anch Ak 99501
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Bennet Blanchard

Name

1151 West Gall Dr Wasilla, AK

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

John McNeil-Vanecek

Name

19320 Gano St.

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matt Lee

Name


26643 Whitespruce Dr. E.R., AK

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

 JESSE GREENE
Name

3624 GREY WOLF DR. WASILA, AK 99654
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name


Address

97504, Anchorage, AK

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Victoria N. Wise

Name

16939 Mercy Dr Eagle River, AK

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Dacoda Lintz

Name

20614 Icefall Dr, Eagle River

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


STANLEY MONTGOMERY

Name


3211 Evergreen St Anchorage, AK 99504

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kavao Siharath 
Name

1280 Contrary Court Anchorage, AK 99515
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Sam Hammer

Name

Sam Hammer

Eagle River Alaska

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

TRAVIS MADDEN
Name

8992 EAGLE RIVER LN, 99577
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

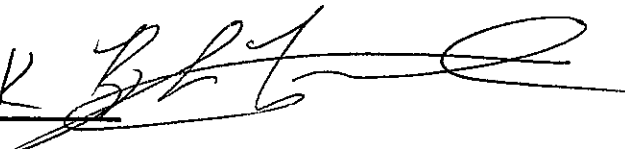
K. Kay
Name

8992 Eagle River Lane ER
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Kyle Hawck 
Name

17018 Arnold Ave unit B
Address 5BER AK 99506

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,



Parsons, Robert D.

Name

16618 Eleonora St Eagle River, Ak 99577

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Alex Soler
Name

11755 Galloway Loop
Address Eagle River, AK 99577

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Holly Jackson
Name

11755 Galloway Loop
Address Eagle River, AK
99577

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

Kaaroni San Nicolas

Eagle River AK
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Chris Hammerk 

Name


20527 Stephen Cir

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

 Blake Martin

Name

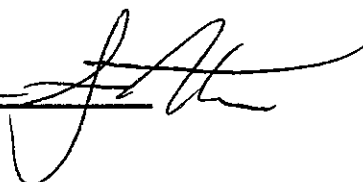
20700 Icefall Drive, Eagle River, AK 99577

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

JAMES HOWELL 
Name

PI BOX 3185 FORT GREEN, AK 99731
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Tama Warner
Name

21415 Tina St Chugiak AK 99567
Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

NATHAN E Davis

Name

205 W. Sheridan

Address

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

 Patrick Osdem

Name

5501 Mayflower Ln Wasilla AK 99654

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jerick Liedtke
Name

11021 bow cir.
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

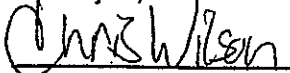
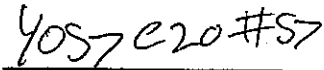
Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Michael McClain

Name

791 6th st JBER AK 99505

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ashley Smith
Name

6945 Campus Ave, JBER, AK 99806
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kris Tomasevic
Name

9820 Dinaakg
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Vanessa Shepherd

Name

PO BOX 6074 JBER, AK 99506

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Derek Culverhouse
Name

8431 E. 5th AVE
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Morgan Oker
Name

9750 Vanguard Dr #53 99507
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Frank Torres

Name

5800 Westover Ave

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jay Ruiz Rodriguez
Name3240 Portland Park
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Racheal-Anarak

Name

3240 Penland PKwy

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Clint Guvier

Name

8044 Normanshire Ct.

Address

Anchorage, AK. 99504



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Emy Tabucal
Name7037 Weimer Rd #1
Address
Anch, AK 99502



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Name

Jeremy Duplessis

Address

11539 Heritage Ct #10

Eagle River, AK 99577



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ryan Wilkins
Name2059 cliffside drive Anchorage AK 99501
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

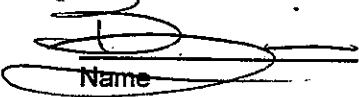
Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

Benjamin Green

1200 columbine ct. #42
Address

Anch, AK 99508



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

Address

3916 East 9th Ave



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Neda Delhasenovic-Roman
Name

3916 E 9th Ave, Apt 9
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jonathan D. Maclelland

Name

2121 Spar. Ave. Anchorage, AK 99501

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kris Solberg
Name2121 Spar Ave
AddressAnchorage, AK

99501



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

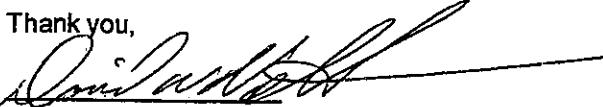
Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name

8410 MAJESTIC DR

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Jordan Walker

Name

2234 Kisse Court

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ben Hoover

Name

4309 E. 5th Ave Anchorage AK 99508

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Dustin Jones

Name

4309 East 5th
1844 South 30th Ave.

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ken Davenport

Name

3745 W 64th Ave Ste A

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Kevin H. H. H.

Name

6725 BLACKBERRY, ANCHORAGE, AK 99502

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

John Aquino

Name

1711 Lore rd 99507

Address

Anchorage, AK



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Erin Thomas

Name

415 N BEAGAN #11

Address

ANCHORAGE, AK 99508



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name 1-26-15

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Dean Kekavalue
Name

13215 Spendllove drive
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Name

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Chad Reed Modrell
Name

3605 Argonne #7 99517
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Renee S. Sullivan
Name

947 west 74th Ave
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

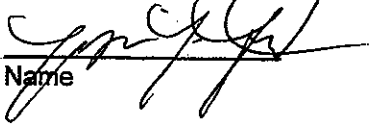
Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name


Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,



Name

Address

11039 Saitan Cir And A2 99508



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Matt Davis

Name

1012 Fed cir

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Chris Alurson
Name

1012 Fred Circle
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Chase Grinnell

Name

2331 Banbury Dr.

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

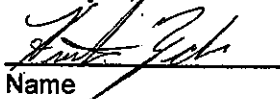
Sun, Jan 25, 2015 at 12:42 PM

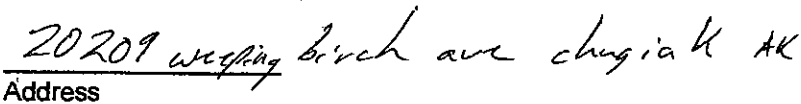
To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,


Name


Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Charles Hall

Name

6813 Cape Lisburne Loop Anchorage, AK 99504

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glacienvapors@gmail.com>

Gv <glaciervapors@gmail.com>
 To: subzerovaporak@gmail.com, Ang Rolland <taccdna@gmail.com>
 Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Name Henry Pios

3030 Davis Rd Cleo. Fairbanks AK 99709
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Nate Edgren

Name

21661 Madsens Pl. Chugiak AK 99567

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Tp: subzerovaporak@gmail.com, Ang Rolland <laccdna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Tina Walsh

Name

5001 Old Second Hwy

Address

Anchorage AK 99503



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ebenezer Anchaya
Name

516 N. Lane St
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version
1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <tacodna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Marciah R Schrier
Name

17535 Palos Verdes Dr.
Address Eagle River AK
99577



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

James D. Mayo II
Name

P.O. Box 876094
Address
Wasilla AK, 99687



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

Gv <glaciovapors@gmail.com>
To: subzerovaporak@gmail.com, glaciovapors@gmail.com, Ang Rolland <taccdna@gmail.com>
Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Name _____

6411 E. 9th Ave. #3

Address



1 message

Sun, Jan 25, 2015 at 12:42 PM

gmail.com>

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Name Madeline Schenker

P.O. Box 311
Address Sutton, AK 99674



Subzero Vapor <subzerovaporak@gmail.com>

Correct version
1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taocdna@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

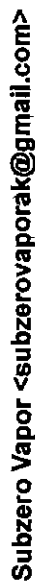
Thank you,

Rhona Schenker
Name

251033 Kings River Drive
Address

Sutton, AK

99674



1 message

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Thank you,
Venus Santanu

Name

255 Whispering Circle Unit B

Address



1 message

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Thank you,
Charles Edwards

Name

604W267ⁿFeb

Address

Ando George Ak 99303



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Frederic Davis

Name

4812 Wesleyan Ave AK 99508

Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taqodna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Ismael Santos 

Name

287 FISHER RUE

Address

99505



Subzero Vapor <subzerovaporak@gmail.com>

Correct version

1 message

Gv <glaciovapors@gmail.com>

To: subzerovaporak@gmail.com, glaciovapors@gmail.com, Ang Rolland <laccdna@gmail.com> Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you,

Mike Penillard

Name

1961 Karlskist Apt 2

Address



1 message

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Brander Nichols

14000 Old Glenn #7, Eagle River, AK

Address



1 message

Sun, Jan 25, 2015 at 12:42 PM

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

William Boyles

Name

1711 Russian Tac Kdr. 99508
Address



Subzero Vapor <subzerovaporak@gmail.com>

Correct version
1 message

Gv <glaciervapors@gmail.com>

To: subzerovaporak@gmail.com, glaciervapors@gmail.com, Ang Rolland <taccdna@gmail.com>

Sun, Jan 25, 2015 at 12:42 PM

To Whom It May Concern,

I do not support Senate Bill 1 in its current form. The inclusion of "electronic cigarettes" is negligent and factually inappropriate. The secondhand effect from vaporizers is negligible per "Peering Through The Mist", Drexel University.

Thank you

Ang Rolland
Name Connor Mobley

1201 West 74th Ave
Address Anchorage, AK 99518