

DEPARTMENT OF
ECOLOGY
State of Washington

Appendix F. Response to Comments

*Tacoma-Pierce County Fine Particle (PM_{2.5})
Redesignation Request and Maintenance Plan*

October 2014

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1. Introduction

This document provides information on the Tacoma-Pierce County Fine Particle (PM_{2.5}) Redesignation Request and Maintenance Plan. The purpose of this appendix is to:

- provide Ecology's response to public comments,
- describe any differences between the proposed and adopted SIP revision,
- meet EPA requirements, and
- provide reasons for revising the State Implementation Plan (SIP).

2. Reasons for Revising SIP

Washington is required by the federal Clean Air Act (CAA) to revise the SIP by submitting a redesignation request and maintenance plan for the Tacoma-Pierce County Fine Particle Nonattainment Area. EPA classified this area nonattainment in 2009 for the 24-hour PM_{2.5} National Ambient Air Quality Standard (NAAQS). The area is now meeting the standard and qualifies to be redesignated to attainment. The SIP revision documents the improvement in air quality and includes a plan for how the area will maintain the standard for the next 10 years.

3. Summary of Public Involvement Process

Ecology accepted public comments on the Tacoma-Pierce County Fine Particle Redesignation Request and Maintenance Plan from August 27th through October 3rd, 2014. We held a public hearing on September 30, 2014 in Tacoma, Washington. This document contains the response to all comments we received and documentation of the public involvement process.

Ecology published notice of the public comment period and hearing on its public involvement calendar and its website. We also issued a news release and published a legal notice in the Daily Journal of Commerce on August 27, 2014. We sent an e-mail notification to Ecology's Air Quality Rules and SIPs listserv and an e-mail notification to an e-mail distribution list of interested parties. Section 9 contains copies of the notices.

4. Differences Between the Proposed SIP Revision and the Final SIP Revision

There are some differences between the public review draft of the proposed SIP Revision dated August 2014 and the final SIP revision dated October 2014. Ecology made these changes to ensure clarity and consistency.

Page number	Change
9, 38	Summarized public involvement information
15	Clarified that summers are relatively cool
17, 18	Clarified figures 3 and 4 represent monitoring data from Tacoma South L Street
41	Added links to appendices, added Appendix F

5. Response to Comments

Commenter Index

The table below lists the names of organizations or individuals who submitted a comment on the SIP revision, where you can find Ecology's response to the comments, and where you can find a copy of the comments.

Name and Affiliation	Location of response (page number)	Location of comment
Jason Jordan, Port of Tacoma	3	Section 8
Doug Fortner, Town of Steilacoom	3	Section 8
Mayor Marilyn Strickland, City of Tacoma	3	Section 8
Craig Kenworthy, Puget Sound Clean Air Agency	3	Section 8

Summary of Comments:

The following comments have been summarized or paraphrased from the comment letters.

Thank you for work to reduce emissions and position the Tacoma-Pierce County PM_{2.5} Area for redesignation. We strongly support this plan and urge its swift adoption. Our community has made the investments and adopted the controls to meet air quality standards. Pierce County citizens clean air choices have directly improved air quality. We look forward to working with you and our partners to collaborate on clean air initiatives and emission reductions in the future.

Ecology Response:

Thank you for your comments. We appreciate the investments made and actions taken by our partners and the community to improve air quality. As a result of these actions, the Tacoma-Pierce County Nonattainment Area is meeting the daily fine particle standard and the community is benefitting from cleaner air. We look forward to working with our partners in the future to review our progress and make sure the area continues to meet the standard. We did not make any changes to the SIP revision as a result of the comments received.

6. Certification of public hearing

DEPARTMENT OF ECOLOGY

HEARING SUMMARY

M E M O R A N D U M

October 1, 2014

TO: Maia Bellon
Director

FROM: Melanie Forster
Hearings Officer

**SUBJECT: State Implementation Plan (SIP) revision: Tacoma-Pierce County nonattainment area
PM_{2.5} Redesignation request and Maintenance SIP Public Hearing Summary**

Topic: Ecology requests that EPA redesignate the Tacoma-Pierce County PM_{2.5} nonattainment area to attainment due to monitoring data showing that the area now meets the 24-hour PM_{2.5} National Ambient Air Quality Standard (NAAQS). The first Maintenance SIP that will take effect if EPA redesignates the area is also part of the proposal.

Program name: Air Quality

Name(s) of Ecology employee(s) at hearing: Joanna Ekrem, Anya Caudill, Nancy Pritchett

Hearing location(s): Tacoma Public Library Main Branch

Total number of people at hearing(s): 5

Total number of testimonies: 0

Summary of Comments:

Joanna Ekrem from Ecology and Craig Kenworthy from Puget Sound Clean Air Agency gave a presentation on the proposal. The presentation explained how enhanced burn ban enforcement and wood stove change-out efforts have helped bring PM_{2.5} levels below the NAAQS. These measures will remain in place in the proposed Maintenance SIP, and are expected to help the area continue to meet the NAAQS. Representatives from City of Tacoma, Pierce County Sustainability Office, Tacoma Pierce County Public Health, University of Washington Tacoma School of Nursing, and Pierce Transit attended. Most of the attendees were actively involved in the Clean Air Task Force prior to the 2012 adoption of the Attainment SIP for the area. No one expressed concerns about the proposal. The audience asked questions about future transportation emissions. Joanna and Craig explained how updated federal requirements like new CAFE standards and Tier 3 sulfur reductions in fuel would result in decreased PM_{2.5} from motor vehicles.

cc: Polly Zehm
Stu Clark
Bari Schreiner
Joanna Ekrem

7. Transcript from public hearing

I'm Melanie Forster, hearing's officer for this hearing. This evening we are to conduct a hearing on the Tacoma Pierce County PM_{2.5} Redesignation Request and Maintenance Plan.

Let the record show it's 6:30 PM on September 30 and this hearing is being held at the Tacoma Public Library Main Branch in the Olympic Room at 1102 Tacoma Avenue South, Tacoma 98402.

Notices of the hearing were sent by e-mail to two separate listservs and a news release was issued on August 27, 2014. Notice was also published in the Daily Journal of Commerce on August 27, 2014.

Okay, I will be calling people up to provide testimony based on the order your name appears in the sign-in sheet.

So, it looks like no one has indicated that they want to testify. Would anyone, has anyone changed their mind? Okay.

Let the record show that about four people attended this public hearing and no one wanted to provide oral testimony.

If you would like to send Ecology written comments, please remember that they are due by October 3, 2014. You may send them to Joanna Ekrem at P.O. Box 47600, Olympia, WA 98504-7600, or you may e-mail them to aqcomments@ecy.wa.gov.

All testimony received at this hearing along with all written comments received no later than October 3, 2014, will be part of the official hearing record for this proposal.

Ecology will send notice about the Response to Comments publication to:

- Everyone who provided written comments or testimony on this SIP proposal and submitted contact information.
- Everyone who signed in for today's hearing who provided an e-mail address.
- Other interested parties on the agencies mailing lists for this proposal.

The Response to Comments will, among other things, contain the agency's response to questions and issues of concern that were submitted during the public comment period. If you would like to receive a copy but did not give us your contact information, please let one of the Ecology staff know or contact Joanna Ekrem at the contact information provided for submitting comments.

The next step is to review the comments and make a determination whether to adopt the SIP revision. Ecology Director Maia Bellon will consider the SIP documentation and staff recommendations and will make a decision about adopting the proposal.

Ecology will submit the proposed SIP revision to EPA after adoption. EPA will then accept public comments before making a decision to approve the SIP revision.

If we can be further help to you, please do not hesitate to ask or you can contact Joanna Ekrem if you have other questions.

On behalf of the Department of Ecology, Puget Sound Clean Air Agency, thank you for coming.

Let the record show this hearing is adjourned at 6:33 PM.

8. Attachments

This section includes comment letters from:

- Port of Tacoma
- Town of Steilacoom
- City of Tacoma
- Puget Sound Clean Air Agency

This section also includes:

- Hearing notices in English, Spanish, and Khmer
- Frequently Asked Questions in English, Spanish, and Khmer
- Ecology Public Involvement Calendar notice
- Ecology webpage
- Ecology News release
- Legal notice and affidavit of publication
- Air Quality Rules & SIPs Listserv E-mail
- E-mail to distribution list of interested parties



People. Partnership. Performance

P.O. Box 1837
Tacoma, WA 98401-1837
www.portoftacoma.com

September 3, 2014

Joanna Ekrem
Ecology Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600

Dear Joanna,

The Port of Tacoma is pleased to submit the following comments on the proposed revision to the State Implementation Plan (SIP) containing the Tacoma-Pierce County PM2.5 Redesignation Request and 10 year Maintenance Plan.

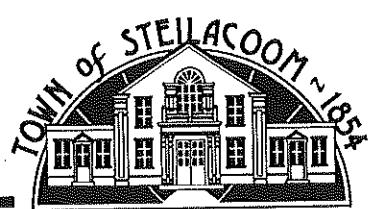
We would like to commend the Department of Ecology (Ecology) and Puget Sound Clean Air Agency (PSCAA) for their work managing emissions from wood stoves and positioning the Tacoma-Pierce County PM2.5 Area for redesignation. Both agencies demonstrated foresight in developing a strategy for non-point sources (wood stoves), insight by providing data supporting their actions, and leadership by working with the local community to develop a community supported action plan.

As a vital part of this community, please be assured that the Port of Tacoma will continue reducing air emissions as part of the Northwest Ports Clean Air Strategy (Strategy), which is incorporated into our ten year strategic plan. We look forward to working with our partners, including Ecology and PSCAA, to collaborate on clean air initiatives and emission reduction projects to reduce greenhouse gases and diesel emissions in support of cleaner air for our community.

Sincerely,

A handwritten signature in blue ink, appearing to read "J. S. Jordan".

Jason Jordan
Director, Environmental Programs



Office of Administration

Mayor Ron Lucas

RECEIVED

September 16, 2014

SEP 19 2014

Dept of Ecology

Joanna Ekrem
Ecology Air Quality Program
PO Box 47600
Olympia WA 98504-7600

Re: Air Quality Program for Tacoma- Pierce County Area

Dear Ms. Ekrem:

The Town of Steilacoom has reviewed the Proposed State Implementation Plan Revision for the Tacoma-Pierce County PM_{2.5} Redesignation Request and Maintenance Plan, and urges its adoption.

The Town is within the Nonattainment Area and is directly affected by the designation. The Department of Ecology and the Puget Sound Clean Air Agency have demonstrated that the area is no longer out of compliance with Federal regulations and have put in place a viable plan to maintain that status.

The Proposed SIP meets the Clean Air Act's requirements for redesignation of the area as one attaining the federal standards. The Town commends the work of the DOE and PSCAA employees that have worked on this plan.

Thank you for allowing the Town to comment on this important matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Doug Fortner".

Doug Fortner
Town Planner

cc: Mayor Lucas
Mr. Loveless



City of Tacoma

Mayor Marilyn Strickland

September 30, 2014

Joanna Ekrem
Ecology Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600

Dear Ms. Ekrem:

The City of Tacoma has been working in close partnership with the Puget Sound Clean Air Agency (PSCAA) for the past several years to address the designation our area received in 2009 that it did not meet the federal daily air quality standard for fine particles. We took action swiftly and, as the data shows in the updated State Implementation Plan (SIP), successfully. We urge the Department of Ecology to forward the SIP to the Environmental Protection Agency (EPA) for their approval, for recognition of our successful effort, and for reclassification of our area as in attainment of federal air quality standards.

The SIP shows our community has made the investments, and our partners have established the controls necessary, to maintain our air quality within the standards of the Clean Air Act. The City of Tacoma wasted no time in partnering with the PSCAA to identify and develop actions that would be doable and effective in our community. We worked with the PSCAA to convene a task force of community representatives who crafted two key actions: enhance burn ban enforcement, and adopt a date certain for removal of uncertified wood stoves and inserts. We established work space for PSCAA staff alongside City staff allowing our organizations to coordinate daily with each other to advance these key recommendations. We participated actively in developing and implementing the Air On The Safe Side campaign to reduce wood smoke in our community. City staff was trained to assist in identifying and reporting burn ban violations.

The City of Tacoma responded promptly and comprehensively to the nonattainment designation. We recognize continuation of this prompt and comprehensive response to our community is now in your hands. We appreciate that you would continue to move the work forward with the same urgency we have dedicated.

Sincerely,

A handwritten signature in blue ink that reads "Marilyn Strickland".

Marilyn Strickland
Mayor

Clean healthy air for
everyone, everywhere,
all the time.

Board of Directors

Bremerton

Patty Lent, Mayor

Everett

Ray Stephanson, Mayor
Paul Roberts, Board Chair

King County

Dow Constantine, Executive

Kitsap County

Charlotte Garrido, Commissioner

Pierce County

Pat McCarthy, Executive

Public-at-Large

Stella Chao

Seattle

Ed Murray, Mayor

Snohomish County

Dave Somers, Councilmember

Tacoma

Ryan Mello, Councilmember

Executive Director

Craig T. Kenworthy

Phone

206.343.8800

800.552.3565

Fax

206.343.7522

Mail

1904 Third Avenue, Suite 105
Seattle, WA 98101-3317

October 2, 2014

Joanna Ekrem
Ecology Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600

Re: Tacoma-Pierce County PM_{2.5} Redesignation Request and Maintenance Plan

Dear Ms. Ekrem:

The Puget Sound Clean Air Agency strongly supports your Tacoma-Pierce County PM_{2.5} Redesignation Request and Maintenance Plan. We look forward to EPA's review and approval of the plan, a major step towards the commitment we made to Pierce County citizens and leaders to return their area to cleaner, healthier air and 'attainment' status as soon as possible.

We commend and appreciate Pierce County citizens clean air choices: not burning during air quality burn bans, and removing their old, uncertified wood stoves through our programs. Their actions implementing the programs set out by the Tacoma-Pierce County Clean Air Task Force in 2011 show that individual actions *do* make a difference – they have directly improved air quality.

While we know that air quality has improved, we know we still have work to do. Our agency will continue to work with local leadership and citizens throughout the life of the maintenance plan. Our partnerships and programs, as well as program evaluation and adjustments will ensure that Tacoma-Pierce County will continue to maintain clean air quality.

Sincerely,



Craig Kenworthy
Executive Director

jwc



Air Quality Program

August 2014

Proposed Air Quality Plan for Tacoma-Pierce County Area

Ecology proposes a revision to an air quality plan called a State Implementation Plan (SIP). The part of the plan being revised is for the Tacoma-Pierce County area to be reclassified to attainment (meeting federal air quality standards) for fine particles. The proposed revision also includes a 10-year plan to keep air quality healthy.

In 2006, EPA strengthened the daily fine particle standard to protect public health and the environment. The greater Tacoma area and surrounding Pierce County communities violated the standard and were designated nonattainment (not meeting air quality standards) in 2009. Since then, Ecology and Puget Sound Clean Air Agency (PSCAA) have been working to reduce fine particle pollution, focusing mainly on wood smoke. The area now has fewer days with unhealthy air quality and has met the fine particle standard since 2011.

What is in the plan revision?

This SIP revision includes:

- air monitoring to make sure that the area continues to meet the air quality standard, and implement an alternate plan if an air quality violation occurs;
- data proving that the area meets federal clean air requirements to be reclassified to maintenance for the 2006 daily fine particle standard;
- 10-year plan to maintain the fine particle air quality standard;
- inventory of air emissions in 2011, 2017, and 2026 for fine particles and pollution that leads to fine particles;
- limits on motor vehicle emissions (cars and trucks) to make sure that the area continues to meet the air quality standard;
- summary of strategies to reduce fine particles as well as existing permanent and enforceable rules that provide Ecology and PSCAA authority to control fine particle pollution;
- work showing how everyone (regardless of race, color, national origin, or income) was included in the environmental decision-making process.

Where do fine particles come from?

Fine particle pollution in the Tacoma-Pierce County area comes mainly from smoke due to burning in wood stoves and fireplaces. It is worse during the winter months when more households are burning wood for heat. In addition, stagnant air traps the smoke from these fires close to the ground and cause air pollution to build up rapidly.

Public Comment Period

August 27 – October 3, 2014

Public Hearing

September 30, 2014 at 6 p.m.
Tacoma Public Library
Main Branch—Olympic Room
1102 Tacoma Avenue South

Documents available at:

<http://www.ecy.wa.gov/programs/air/sips/designations/pmtacoma.htm>

Ecology
300 Desmond Drive SE
Lacey, WA 98503

Tacoma Library Main Branch
1102 Tacoma Avenue South
Tacoma, WA 98402

Contact information:

Joanna Ekrem
joanna.ekrem@ecy.wa.gov
Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600
(360) 407-6826

For special accommodations or documents in an alternate format, call (360) 407-6800, 711 (relay service), or 877-833-6341 (TTY).



Other, smaller sources of fine particle pollution include:

- exhaust from cars and trucks,
- dust,
- large industries, and
- other non-road engines, equipment, and vehicles, such as construction equipment, buses, ships, and trains.

What are the health effects of fine particle pollution?

Fine particles are microscopic bits of soot, dust, or ash that are a fraction of the size of a single human hair. Fine particles are easily inhaled into our lungs. Their tiny size allows them to travel deep into the lungs and circulatory system. As a result, fine particles have both short- and long-term health effects. Exposure to fine particle pollution is linked to decreased heart and lung function, respiratory disease, asthma attacks, heart attacks, strokes, and premature death. Fine particle pollution affects everyone, but is the most harmful to children, older adults, and people with respiratory and cardiac diseases.

Ecology wants your comments!

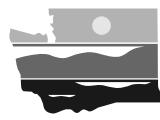
You may review and comment on the proposed SIP revision and related documents through **October 3, 2014**. The public comment period is an opportunity to have your ideas and comments heard by Ecology. A public hearing is being held on **September 30, 2014**. This will be a chance to learn about the proposed plan revision, and to offer your comments or concerns. The box on page one provides details about where the documents can be found and details about the public hearing.

To comment on the plan:

- email AQComments@ecy.wa.gov
- mail: Joanna Ekrem
Ecology Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600
- testify or submit written comments at the public hearing

How will Ecology respond to comments?

Ecology will prepare a document which responds to the questions and comments submitted. This will be sent to everyone who commented. It will also be available at the locations listed in the box on page one. Based on public comment, Ecology may modify the proposed plan.



កម្មវិធីគុណភាពខ្សោយលំអាកាស (Air Quality Program)

ខែសីហា ឆ្នាំ 2014

គំរាលដែនការគុណភាពខ្សោយលំអាកាសសំរាប់តំបន់តាមឃ្លា-កាសខោនធី (Tacoma-Pierce County Area)

ក្រសួងហិរញ្ញាណស្ថិស្តការពិនិត្យដែនការគុណភាពខ្សោយលំអាកាសឡើងវិញ ដែលហេតុដែនការប្រតិបត្តិដូច (SIP) ។ ផ្ទះកន្លែងដែនការដែលប្រព័ន្ធគិនិត្យឡើងវិញត្រូវតីសំរាប់តំបន់តាមឃ្លា-កាសខោនធី (Tacoma-Pierce County) ដែលប្រព័ន្ធប៉ុប៉ែឡើងវិញចំពោះសមិទ្ធភាព (ដែលបំពេញតាមស្ថិស្តការគុណភាពខ្សោយលំអាកាសរបស់សហព័ន្ធ) សំរាប់ជាតិពុលក្នុងខ្សោយលំអាកាស។ ការពិនិត្យឡើងវិញឡើងវិញសំណើកំមាននូវមុខទំនាក់ដែនការ 10 ឆ្នាំ ដើម្បីក្រុមគុណភាពខ្សោយលំអាកាស នូវ។

ក្នុងឆ្នាំ 2006, EPA បានពារីនឹងស្ថិស្តជាតិពុលក្នុងខ្សោយលំអាកាសប្រចាំថ្ងៃរបស់សហព័ន្ធដើម្បីការរាយសុខភាពសាធារណៈជននិងហិរញ្ញាណ។ តំបន់តាមឃ្លាដែលឱ្យជាផិនិត្យកំពង់តំបន់ជិតិវិញសហមន្តរភាសខោនធី (Pierce County) បានរំលាក់បំពានលើស្ថិស្តជាតិ និងបានប្រព័ន្ធប៉ុប៉ែឡើងវិញមិនមែនសមិទ្ធភាព (ដែលមិនបំពេញតាមស្ថិស្តការគុណភាពខ្សោយលំអាកាស) ក្នុងឆ្នាំ 2009 ។ ចាប់តាំងពីពេលនោះមក ក្រសួងហិរញ្ញាណនិងគ្រប់ខាងខ្សោយលំអាកាសស្ថាត Puget Sound Clean Air Agency (PSCAA) បានធ្វើការដើម្បីការតំបន់បន្ទូលយុទ្ធភាពក្នុងខ្សោយលំអាកាស ដោយផ្តាច់សំខាន់លើដើម្បីដោនុសដុំ។ ឥឡូវនេះតំបន់នេះមានគុណភាពខ្សោយលំអាកាសលូតិបុរីថ្មី ហើយបានបំពេញតាមស្ថិស្តជាតិពុលក្នុងខ្សោយលំអាកាសចាប់តាំងពីឆ្នាំ 2011។

តើអ្វីខ្លះ ដែលមាននៅក្នុងការពិនិត្យដែនការឡើងវិញ?

ការពិនិត្យឡើងវិញដែនការ SIP នេះ មាននូវមុខទំនាក់ដែនការដើម្បីបន្ទូលបំពេញតាមស្ថិស្តការគុណភាពខ្សោយលំអាកាស និងអនុវត្តដែនការដែលមានចំនួនបាន ដើម្បីរាយការពុំលាក់បំពានលើគុណភាពខ្សោយលំអាកាសមានកំណត់ឡើង;

- ការគ្រប់ពិនិត្យខ្សោយលំអាកាសដើម្បីជាតាត់បំនែនបន្ទូលបំពេញតាមការទាមទារខ្សោយលំអាកាសហិរញ្ញាណរបស់សហព័ន្ធ ដែលប្រព័ន្ធប៉ុប៉ែឡើងវិញចំពោះការក្រុមស្ថិស្តជាតិពុលក្នុងខ្សោយលំអាកាសប្រចាំថ្ងៃសំរាប់ឆ្នាំ 2006;
- ដែនការ 10 ឆ្នាំ ដើម្បីក្រុមស្ថិស្តជាតិគុណភាពខ្សោយលំអាកាសនៃជាតិពុលក្នុងខ្សោយលំអាកាស;
- បញ្ជីសារពីកំណើនការបោះឆ្នោតខ្សោយលំអាកាស 2011, 2017 និង 2026 សំរាប់ការជាតិពុលក្នុងខ្សោយលំអាកាស និងគារក្រុមខ្សោយលំអាកាសដែលបណ្តាលចូលមានជាតិពុលក្នុងខ្សោយលំអាកាស;
- កំណត់ការបោះឆ្នោតដើម្បីដោនុសដុំ (បែយនុសដុំក្នុងនិងបែយនុសដុំ) ដើម្បីជាតាត់បំនែនបន្ទូលបំពេញតាមស្ថិស្តជាតិពុលក្នុងខ្សោយលំអាកាស;
- សេចក្តីផ្តើមអំពីយុទ្ធសាស្ត្រដើម្បីការតំបន់បន្ទូលក្នុងខ្សោយលំអាកាស កំណើចជាបញ្ហាប់ជាមួយដែនការពិនិត្យឡើងវិញ ដែលមានស្ថាតនិងការចេញផ្សាយអនុវត្ត ដែលផ្តល់ជូនក្រសួងហិរញ្ញាណនិងអាជ្ញាធរ PSCAA ដើម្បីត្រួតពិនិត្យពីជាតិក្រុមខ្សោយលំអាកាស;
- ធ្វើការដែលបង្ហាញប៉ុប៉ែឡើងវិញបានប្រព័ន្ធដើម្បីក្រុមខ្សោយលំអាកាស (ដោយមិនគិតពីជាតិសាសន៍ ពណ៌សម្បូរ សញ្ញាតិដើម្បីប្រាក់ចំណូល) ត្រូវបាននូវបញ្ជីនៅក្នុងដែនការនៃការសំរាប់សេចក្តីលើហិរញ្ញាណប្រទេ។

រយៈពេលការងារនេះយោបល់សាធារណៈ:

ថ្ងៃទី 27 ខែសីហា - ថ្ងៃទី 3 ខែកញ្ញា ឆ្នាំ 2014

សំនាក់សាធារណៈ:

ថ្ងៃទី 30 ខែកញ្ញា ឆ្នាំ 2014 នៅម៉ោង 6 ល្ងាចបណ្តាលប័យសាធារណៈក្រុងតាមឃ្លា (Tacoma Public Library) សាខាកណ្តាល - បន្ទាប់ (Main Branch-Olympic Room) 1102 Tacoma Avenue South

អាជ្ញាធរនានាអាជ្ញាធរមើល្បាច់:

http://www.ecy.wa.gov/programs/airs/sips/designations/pm_tacoma.htm

ក្រសួងហិរញ្ញាណ

300 Desmond Drive SE
Lacey, WA 98503

សាខាកណ្តាលនៃបណ្តាលប័យគុណឃ្លា

(Tacoma Library Main Branch)
1102 Tacoma Avenue South
Tacoma, WA 98402

ព័ត៌មានសំរាប់ទាក់ទង៖

Joanna Ekrem
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កម្មវិធីគុណភាពខ្សោយលំអាកាស (Air Quality Program)
P.O. Box 47600
Olympia, WA 98504-7600
(360) 407-6826

សំរាប់ដំណោះស្រាយកិច្ចការ

ប្រាក់ការនានាក្នុងទីផ្សារដើម្បីក្រុមខ្សោយលំអាកាស
សូមទូរស័ព្ទលើ (360) 407-6800, 711
(សំរាប់លេខបន្ទូល) ឬ 877-833-6341
(TTY) ។



ពីជាតិពុលក្នុងខ្សែអាកាសមកពីណា?

ជាក្រុងកំណែជាតិពូលកង់ខ្លួនអាកាសកង់តាំងនាមៗ-ភាសាខ្មែរដី Tacoma-Pierce County

ភាគច្រើនមកពីដែនដោយសារចងានដែលអសនិងចងានកំដៅដែលការណ៍នេះវាអារកក់បំផុតនៅក្នុងខេត្តដែរដែល

ຖក្រពីនេះ ប្រភពគុចតាបជាប្រើប្រាស់នៃជាតិក្រឡាក់នៃជាតិពូលកងដែលមានសម្រាប់អាកាសមានឈរ

- ផ្លូវបច្ចាស់បំពុនដើរមិយនុស្សជុនកូចនិងមិយនុស្សជីកជាតុនជុនដែលមានស្ថាបន្ទាយ
 - ធ្វើឱ្យបានស្ថាបន្ទាយ
 - ពាងខសស្អាតកម្ម និង
 - ក្រោតីនេះទៀត មាតិចាមាស្តីកំបាយលើដឹងថ្មីលំបាត់ គ្រឿងម៉ាស្តី និងយានជំនួយ គ្រប់ប្រភេទ ដូចជាម៉ាស្តីសំណង់ មិយនុស្សក្រោង កច្ចាល់ និងមិយនុស្សក្រោង។

តើជាត្រក្រឡុក់នេដាតិពុលក្នុងខ្សែអាកាសគីឡូទីដែលប៉ះពាល់ដល់សុខភាព?

ជាតិពលកងខ្លួនរការសត្វការប់លូអងមីក្រទស្សន៍ ដូលី បង់ដែលជាចំណោកគុចបាយនានទាំងប៉ែនស្ថិសសក់មនស្បះ

ជាកិច្ចលកដែលមានការសង្ឃឹមប្រចាំថ្ងៃទៅក្នុងសត្វា ភាពពេលិតអនុញ្ញាតទៅធានទាំងនេះចំណាយដោយក្រុងសត្វ និងប្រៀបដែលដកដងដើម្បី

ຜົນເຄີຍການໂຄງການ ດັ່ງນີ້ແມ່ນຂອງພວກເຮົາທີ່ມີຄວາມສຳເນົາໃຫຍ່

គ្មាន់ពីរដូចជាបន្ទុកបានស្រួលបានស្រួល និងបានស្រួលបានស្រួល ដើម្បីបានស្រួលបានស្រួល និងបានស្រួលបានស្រួល

ជាតិសម្រាប់ការអនុវត្តន៍យុទ្ធសាស្ត្រ។ និងធ្វើឱ្យបានក្រោងពាណិជ្ជកម្ម។

ពេលវេលាដើម្បីជួយបង្កើតរឹងការនៃបណ្តុះបណ្តាលក្នុងបានដែលបានបង្កើតឡើង

ករសងបិសានចដ្ឋានយោបល់ពីលោកអ្នក !

អក្សរាណិតម្មីដែលបានចូលរួមជាអង់គ្លេសនៅក្នុងក្រុងក្រោមប្រព័ន្ធឌីជីថាមពីរបានបញ្ជាក់ថា SIP និងក្រុងក្រោមរបស់ខ្លួន មិនមែនជាប្រព័ន្ធ ហើយទៅលើក្នុងក្រុងក្រោមប្រព័ន្ធឌីជីថាមពីរ និងក្រុងក្រោមរបស់ខ្លួន មិនមែនជាប្រព័ន្ធ ហើយទៅលើ

៤. របៀបក្រោមពីតម្លៃគ្មានដែលត្រូវបានបង្ហាញនៅក្នុងការបង្ហាញទិន្នន័យ និងការបង្ហាញទិន្នន័យ

សំណើរាយការណ៍នៃក្រសួងពេទ្យ និងក្រសួងពេទ្យ នៃប្រជាជាតិ និងក្រសួងពេទ្យ និងក្រសួងពេទ្យ នៃប្រជាជាតិ

និងទទួលបានការគ្រប់គ្រងដោយសារព័ត៌មាន និងវឌ្ឍនភាព និងការគ្រប់គ្រងដោយសារព័ត៌មាន និងវឌ្ឍនភាព

និងបង្កើតរាជធានីភ្នំពេញនៃក្រសួងពេទ្យយោនអនុវត្តន៍ដែលបានបង្កើតឡើង

ເພື່ອຜົດໜາກໂລກ

- អ្នកផែលទៅ: AQComments@ecy.wa.gov
 - ដើម្បីទៅ: Joanna Ekrem

កម្មវិធីគោរពខ្លះមានការនៃកសិបិសាន

P.O. Box 47600
Olympia, WA 98504-7600

- ផលិតកស្សាតាងបង្កល់យោបល់ជាបាយលក្ខណឺអក្សរនៅពេលធ្វើសវនាការ

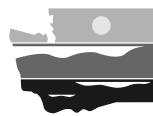
តើក្រសួងបរិស្ថាននឹងធ្វើយកនឹងយោបល់របស់លោកអ្នកដូចមេច?

ក្រសួងបរិស្ថាននឹងរាយការជាបន្ទាល់នូវការក្រសួងបរិស្ថានដែលបានធ្វើមក។

ការណើនេះគឺជាក្រសួងបរិស្ថានដែលបានផ្តល់យោបល់មក។ គឺនឹងអាចមាននៅក្នុងប្រអប់ដែលបានរាយការណ៍ឡើងកំទីមួយ។

ដោយយោងលើយោបល់សាធារណៈជន ក្រសួងបរិស្ថានអាចកែតម្រូវដែលការដែលបានស្មើសំ។





Programa de Calidad de Aire

agosto 2014

Propuesto Plan para la Calidad de Aire en el Área de Tacoma y el Condado de Pierce.

Ecología propone una revisión a un plan para la calidad del aire llamado un Plan de la Implementación Estatal (SIP, por sus siglas en inglés). Se está revisando la parte del plan para reclasificar el área de Tacoma y el Condado de Pierce a “attainment” (cumpliendo con las normas federales para la calidad de aire). La propuesta revisión también incluye un plan de 10 años para mantener una calidad de aire saludable.

En 2006, el EPA fortaleció la norma diaria para partículas finas para proteger la salud pública y el medio ambiente. El área de Tacoma y las comunidades cercanas en el Condado de Pierce superaron la norma y fueron designados “nonattainment” (no cumple con las normas de calidad de aire) en 2009. Desde entonces, Ecología y La Agencia de Aire Limpio de Puget Sound (PSCAA, por sus siglas en inglés) han estado trabajando para reducir la contaminación por partículas finas, enfocando principalmente en el humo de leña. El área ahora tiene menos días con una calidad de aire insalubre y así ha cumplido con la norma para partículas finas desde 2011.

¿Que contiene la revisión del plan?

Esta revisión del SIP incluye:

- Monitoreo del aire para asegurar que el área sigue cumpliendo con la norma de calidad de aire, y implementación de un plan alternativo si la calidad de aire supera la norma;
- Datos que demuestra que el área cumple con los requisitos federales de aire limpio para ser reclasificado a un estatus de mantenimiento para la norma diaria de calidad de aire para partículas finas de 2006;
- Un plan de 10 años para mantener cumplimiento con la norma de calidad de aire para partículas finas;
- Un inventario de las emisiones al aire en 2011, 2017, y 2026 para partículas finas y la contaminación que crea esas partículas finas;
- Límites en las emisiones de vehículos (autos y camiones) para asegurar que el área sigue cumpliendo con la norma de calidad de aire;
- Un resumen de las estrategias de reducir las partículas finas y las reglas permanentes y ejecutables que le da la autoridad a Ecología y PSCAA controlar la contaminación por partículas finas;
- Los trabajos que demuestran como todas las personas (sin tomar en cuenta raza, color, origen nacional, o ingresos) fueron incluidas en el proceso de hacer las decisiones medioambientales.

¿De dónde viene las partículas finas?

La contaminación por partículas finas en el área de Tacoma y el Condado de Pierce viene mayormente del humo al quemar en estufas de leña y chimeneas. Es peor durante los meses del invierno cuando hay más hogares quemando leña para calefacción. Adicionalmente, aire estancado atrapa el

Periodo de Comentario Público

27 de agosto – 3 de octubre, 2014

Audiencia Pública

30 de septiembre, 2014 a las 6 p.m.
Biblioteca Pública de Tacoma (Tacoma Public Library)
Ubicación Principal - Sala Olympic
(Main Branch–Olympic Room)
1102 Tacoma Avenida Sur

Documentos disponibles (en inglés) en:

http://www.ecy.wa.gov/programs/air/sips/designations/pm_tacoma.htm

Ecología
300 Desmond Drive SE
Lacey, WA 98503

Ubicación Principal de la Biblioteca Pública de Tacoma (Tacoma Library Main Branch)
1102 Tacoma Avenida Sur
Tacoma, WA 98402

Contacto (en inglés):

Joanna Ekrem
joanna.ekrem@ecy.wa.gov
Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600
(360) 407-6826

Para ayuda en español, llame a Greg Bohn a (509) 454-4174 o envíe un correo electrónico a preguntas@ecy.wa.gov.

humo de estas estufas y chimeneas cerca al suelo y así causa la acumulación rápida de la contaminación al aire.

Otras fuentes más pequeñas de la contaminación por partículas finas incluyen:

- El escape de autos y camiones,
- Polvo,
- Industrias grandes, y
- Otros motores, equipos, y vehículos que no se usan en la carretera, tales como equipo de construcción, buses, barcos, y trenes.

¿Qué son los efectos a la salud de la contaminación por partículas finas?

Las partículas finas son pedacitos microscópicos de hollín, polvo y ceniza que son una fracción del tamaño de un pelo humano. Las partículas finas son fácilmente inhaladas por nuestros pulmones. Su tamaño pequeño les permiten viajar profundamente dentro de nuestros pulmones y sistema circulatorio. Por eso, las partículas finas provocan efectos a la salud en ambos corto y largo plazos. Exposición a la contaminación por partículas finas está conectado con una disminución de la función del corazón y los pulmones, enfermedad respiratorios, ataques de asma, los accidentes cerebro-vasculares, y la muerte prematura. La contaminación por partículas finas afecta a todas las personas, pero es más dañina a niños, adultos mayores, y personas con enfermedades respiratorios o cardíacos.

¡Ecología quiere sus comentarios!

Usted puede revisar y comentar sobre el propuesto revisión del SIP y los documentos relacionados hasta el **3 de octubre, 2014**. El periodo del comentario público es una oportunidad para que Ecología escucha sus ideas y comentarios. Hay una audiencia pública el **30 de septiembre, 2014**. Usted puede examinar y comentar sobre la propuesta revisión al SIP y los documentos relacionados hasta el **3 de octubre, 2014**. Esto sería una oportunidad para aprender algo sobre la propuesta revisión al plan y ofrecer sus comentarios y preocupaciones. El cuadro en la primera página tiene los detalles sobre donde se puede encontrar los documentos y sobre la audiencia pública.

Para comentar sobre el plan:

- Envíe un correo electrónico a AQComments@ecy.wa.gov
- Correo: Joanna Ekrem
Ecology Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600
- Testifique o entregue comentarios escritos durante la audiencia pública

¿Cómo responderá Ecología a los comentarios?

Ecología preparará un documento que responde a las preguntas y comentarios entregados. Le enviará este documento a todas las personas que comentan. También estará disponible en las ubicaciones listadas en el cuadro en la primera página. Ecología puede modificar el propuesto plan en respuesta a los comentarios públicos.

Para acomodaciones especiales o documentos en un formato alternativo, llame (360) 407-6800, 711 (servicio de retransmisión) o 887-833-6341 (TTY).





Frequently Asked Questions

Air Quality Program

August 2014

Reducing Fine Particle Air Pollution in the Tacoma-Pierce County Area

In the fall and winter, fine particle air pollution in the greater Tacoma and Pierce County area can spike to levels that go above federal air quality standards. Federal air quality standards are established by EPA to protect our health and the environment.

In 2009, EPA declared the area a nonattainment area because it did not meet the federal daily air quality standard for fine particles. Ecology has been working with Puget Sound Clean Air Agency to reduce fine particle air pollution to healthier levels, focusing on reducing wood smoke.

Q: What are fine particles?

A: Fine particles are microscopic bits of soot, dust, or smoke that are a fraction of the size of a single human hair. Fine particle pollution refers to particulate matter 2.5 micrometers in size or smaller ($PM_{2.5}$).

Q: Where do fine particles from?

A: Fine particle pollution in the Tacoma-Pierce County area mainly comes from smoke due to burning in wood stoves and fireplaces. It is worse during the winter months when more households are burning wood for heat. In addition, stagnant air traps the smoke from these fires close to the ground and causes air pollution to build up rapidly. Other, smaller sources of fine particles include:

- exhaust from cars and trucks,
- dust,
- large industries, and
- other non-road engines, equipment, and vehicles, such as construction equipment, buses, ships, and trains.

Q: Why are fine particles a problem?

A: Fine particles are easily inhaled deep into our lungs and travel in the circulatory system, affecting the heart and lungs. Fine particle pollution affects everyone, but is most harmful to children, older adults, and people with respiratory and cardiac diseases.

WHY IT MATTERS

Fine particle air pollution has serious health effects and can result in:

- Decreased heart and lung function
- Respiratory disease
- Asthma attacks
- Heart attacks
- Strokes
- Premature death

Reclassification to attainment (meeting federal air quality standards) has many benefits:

- Improves public health
- Obeys federal Clean Air Act
- Requires less strict permitting for new and expanding businesses
- Provides continued transportation funding

Contact information:

Joanna Ekrem
(360) 407-6826
joanna.ekrem@ecy.wa.gov

For special accommodations or documents in an alternate format, call (360) 407-6800, 711 (relay service), or 877-833-6341 (TTY)

Q: What is the fine particle standard?

A: In 2006, EPA strengthened the federal daily air quality standard for fine particles by changing the limit from 65 micrograms per cubic meter to 35 micrograms per cubic meter. Parts of Tacoma and Pierce County violated the standard and were classified nonattainment based on monitoring data from 2006-2008.

Q: What is being done to reduce fine particle pollution?

A: Puget Sound Clean Air Agency is the local clean air agency with authority in the area. Puget Sound Clean Air Agency worked closely with the local community and a task force through 2011. The task force's goal was to develop and carry out actions to reduce fine particle pollution to healthier levels. Based on the task force's recommendations as well as more protective laws and rules, Puget Sound Clean Air Agency started new programs in 2012 including:

- increased enforcement during air quality burn bans and called burn bans at lower trigger levels;
- provided incentives to remove and replace uncertified wood stoves;
- remove all uncertified wood stoves by September 2015;
- increased awareness and educated residents about clean burning practices.

Q: What's next?

A: Monitoring data from Puget Sound Clean Air Agency shows that air quality has improved and the area is meeting the standard. In late 2014, Ecology will ask EPA to approve the air quality plan for the Tacoma-Pierce County area. This maintenance plan shows how the area will keep meeting air quality standards for the next 10 years. Once EPA approves, the Tacoma-Pierce County area will be reclassified as an attainment area (meeting federal air quality standards).

Q: How will air quality stay healthy?

A: Puget Sound Clean Air Agency will keep monitoring air quality as well as continue the other programs begun in 2012. If fine particle pollution levels rise or violate the air quality standard, Puget Sound Clean Air Agency will take more action to reduce pollution to healthier levels.

Q: What can you do to keep the air healthy?

A: If you burn wood for heat, burn dry wood. Obey burn bans. Replace your uncertified wood stove with a cleaner heating device.

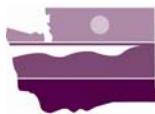
Q: Where can you get more information?

A: For more information:

http://www.ecy.wa.gov/programs/air/sips/designations/pm_tacoma.htm

<http://airsafepiercecounty.org>

សំណើរនាយកដែលស្ថិតជាប្រើកប្រាប់



DEPARTMENT OF
ECOLOGY
State of Washington

**កម្មវិធីគុណភាពខ្សែកស្តីអាកាស (Air Quality Program)
ការបន្ថែមឈានក្នុងក្រុងផែនជាតិពុលក្នុងខ្សែកស្តីអាកាសក្នុងតំបន់ភាគខ្ញុំ
ភាសខ្លះនៃ Tacomas-Pierce County**

ເនັ້ນກຸງຜະເພີ່ມສູ່ກະເບຍ້ໄຊແລ້ວ ສິນເຫາວ ດາຕຸກຽງທີ່ໄດ້ຕົກລົງຂອງບໍ່ມີການຄຸງຂັງດຳບໍ່ກ່າວໜ້າຜົນຜໍຜະແນງ
ສິນກາສເຫດໃນ Tacoma-Pierce County ພັນຍືກີ່ຂອງສົ່ງຜົນກໍ່ກົດໝາຍຂອງສົ່ງຜົນຜໍຜະແນງ
ດັດກາຕະຫຼາດຫຼັງໆກ່າວສະບັບສົກທີ່ຮ່າງໆ ສູ່ຜົນຜໍຜະແນງດັດກາຕະຫຼາດຫຼັງໆກ່າວສະບັບສົກທີ່ຕ່າ
ນບັນດີຕາງໆຜົນຜໍຜະແນງ EPA ເພີ່ມກາງການສູ່ກະເບຍ້ໄຊແລ້ວ ເພີ່ມສິນເຫາວ

ក្នុងឆ្នាំ 2009, EPA បានប្រកាសតាំបន់នេះជាតាំបន់មិនមែនសមិទ្ធកម្ម ពីរោច៖ វាមិនបានដូចតាមស្ថិក ដែលជាតាំបន់ភាគរបស់សហព័ន្ធសំរាប់ជាតិពុលកុងខ្សែអាកាស។
ក្រសួងបច្ចុប្បន្នបានធ្វើការជាមួយនឹងខ្លួនគ្នាក្នុងខ្សែអាកាសស្ថាត Puget Sound Clean Air Agency ដើម្បីការតាំបន់យុទ្ធផលក្នុងខ្សែអាកាសដើម្បីនេះ កកិត្យាបានធ្វើឡើងនៅក្នុងខ្សែអាកាស។

ស៊ីវិទ្យាបេរិចាជាតិកពូលក្នុងខ្សែអភកស?

ຜົນ: ດາຕີຖຸລັບຄຸ້ມຂຽນໆໜ້າກາສົດຕື່ໂຄບບໍລິ້ນແຮງມະກູອະສູງນີ້ ຜູ້ລົ້ນ ບຸຜະເຟລັບຜົນທີ່ໂນກຄຸ້ມພານ ທີ່ບໍ່ບັນຫຼຸງສົ່ງສົ່ງສົ່ງສົ່ງ ດາຕີນ້າກາສົດກຽກທີ່ໄດ້ດາຕີຖຸລັບຄຸ້ມຂຽນໆໜ້າກາສົດສົ່ງເຜົ່າໃນເຕະບະການ ເບສ່ວນຕິເປັນສົດຕື່ໂຄບບໍລິ້ນມາຈຳກົດມານີ້ 2.5 ມີກົມຢັ້ງກົບຄົບຜົນແຮງ: (PM_{2.5}) ປົນ

ស៊ី: តើជាតិពុលក្នុងខ្សែលេខាកាសមានមកពីណា?

ចំណាំ: ជាតុក្រឡូកដែលបានគ្រប់អាកាសក្នុងតំបន់ភាពខ្មែរ-ភាសាខេននៃ Tacoma-Pierce County ការព្រៃនមកពីផ្លូវដោយសារចេប្បានដូចអុសនិងបញ្ជានាកំដៅធ្វើ។ ការណែនាំនេះ ការអារក្រកំបែងជាតុក្រឡូកដែលបានគ្រប់អាកាសក្នុងខែនៃរដ្ឋរាជ នៅពេលបានបញ្ជានាកំដៅធ្វើ។ ជាតុក្រឡូកដែលបានគ្រប់អាកាសក្នុងខែនៃរដ្ឋរាជ នៅពេលបានបញ្ជានាកំដៅធ្វើ ហើយបង្ហាញថា ជាតុក្រឡូកដែលបានគ្រប់អាកាសក្នុងខែនៃរដ្ឋរាជ នៅពេលបានបញ្ជានាកំដៅធ្វើ ហើយបង្ហាញថា ជាតុក្រឡូកដែលបានគ្រប់អាកាសក្នុងខែនៃរដ្ឋរាជ នៅពេលបានបញ្ជានាកំដៅធ្វើ

- ផ្សេងៗចោរពីបំពុនដែក្នៃបែលយន្តធមូនគ្របនិងរបយន្តដីកន្លែងជំ
 - ធ្វើបី
 - បានខស្សាបាកម្ពុះ និង
 - ក្រកពីនេះទៅត្រួត មកកិច្ចការសុវត្ថិភាពបើកបរិភ័យផ្ទេរជាល់ ក្រឹងម៉ាសុីន និងយានដំនី៖គ្រប់ប្រព័ទ័រ ដូចជាម៉ាសុីនសំណង់ រចយន្តក្រក កបាត់ល់ និងរចឡើង។

ស៊ី: ហេតុផ្លូវមេចបានជាមានបញ្ហាដាតិពុលក្នុងខ្សែលោកស៊ា?

ວິທີ: ດາວໂຫຼດລົງຂຽນກ່າວຄະດີແນຍງສຽບລົງຄຳເພື່ອຜົນເຜົ້າໃຈຕຸກສູດ
ນີ້ແມ່ນກໍ່ຕ່າມປະຕິບັດສູງກໍ່ສົນຍາມ ເພີ້ມບັນດາລົງຮັບຮັບແຜນເສັງອີນສູດຕາ ດາວໂຫຼດຫຼັກສູດ
ດີຕຸກສູດຂຽນກ່າວຄະດີບັນດາລົງຜົນບັນດາຫຼັກສູດຕາ ບັນດາລົງບັນດາຫຼັກສູດຕາ
ມະນຸຍາສົ່ງເພີ້ມບັນດາລົງຮັບຮັບແຜນເສັງອີນສູດຕາ ໂດຍບໍ່ມີກຸ່ມາ

ហេតុអីបានជាសំខាន់

ជាតិក្រោមកំណែជាតិកូលក្នុងខ្សែស្ថេរអាកាស
មានការបែងចាយលើយ៉ាងខ្សោយដំឡើងទៅលើស្ពឺ
ខាងពីរនិងអាមេរិកាលទូទាត់នៅមេដែល

- ជម្រើសរើសនិងចលនាសុក
 - ជម្រើសប្រព័ន្ធបែកដឹង
 - កើតជម្រើសហិរញ្ញវត្ថុ
 - គាំងបេះដឹង
 - ជាប់សាកសំណើយកម្មគួរឱ្យការិយាល័យ
 - ការស្វែបទារកសិកដៃ

ការរៀបចំថ្វោះសមិទ្ធកម្មឡើងវិញ
(ដែលបំពេញតាមស្ថិជាតុណុយភាពខ្សោយលេ
អាកាសរបស់សហព័ន្ធ)

ມາຮປ່ເພາດນີ້ຕ້າງຕື່ນະ

- ផ្លូវសុខភាពសាធារណៈដែនកាន់តែប្រសើរឡើង
 - គោរពច្បាប់ស្តីពីខ្សោយអភាគសហិសុច្ចរបស់សហព័ន្ធ
 - តម្លៃទូរសាន្តបំបាយយាត់គិចដល់ហានុញ្ញកម្មប្រើនិងដល់ការព្យឹងកហានុញ្ញកម្មប្រើនិងដល់ការព្យឹងកហានុញ្ញកម្ម
 - ដល់មួលិជិបន្ទូនដល់ការដើរដ្ឋាន

ព័ត៌មានសំរាប់ទាក់ទង:

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Joanna.ekrem@ecy.wa.gov

សំរប់ដំណឹកអេសាយពិសេស
ប្រជាកសារនានាចុងទម្រង់ផ្សេង
សូមទូរសព្ទលើលេខ (360) 407-6800, 711
(សេវាលើលេខបន្ទុល) ឬ 877-833-6341
(TTY)។

សេវាឌាស្តីដាក់ពាណិជ្ជកម្មខ្លួនអាកាស?

ឯ៍ ក្នុងឆ្នាំ 2006, EPA បានពារីស្ថិតិជាតិទូរក្នុងខ្សែអភាគសម្រាប់ថ្វូលសៀវភៅដោយការផ្តល់បញ្ជីកិត្តិក្រឹត 65 មីត្រក្រាមក្នុងមួយម៉ែត្រគ្រឿបឡើដល់ 35 មីត្រក្រាមក្នុងមួយម៉ែត្រគ្រឿប ចំណោកទីក្រុងតាមឱ្យមាននិងភាសាខាងជើរ Tacomas and Pierce County ដែលបានរំលែកបំពេនលើក្នុងជាតិនិងក្រុងបានចាត់ជាកំបន់មិនមែនសមិទ្ធក្នុងដោយបានលើការក្រុកពិនិត្យទិន្នន័យពីឆ្នាំ 2006-2008។

ស៊ី: ពើអ្វីដែលក្រោរធ្វើដើម្បីការបន្ទូយជាតិក្រឡុក់នៃជាតិពុលគុងខ្សោយភាសា?

ស៊ី: ពីរមានអ្នបន្ទាប់?

សេចក្តីណាមាសនឹងស្ថិតនៃក្នុងភាពមានសុខភាពល្អដូចមេច?

ស៊ីវិភាគអារម្មណដើម្បីខ្លះដើម្បីក្រាមុខល័យអាកាសទ្វាមានសុខភាពណ្ហ?

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សេវាអេក្រង់ការបង្កើតផ្លូវលាក់អាណាព

អេក្រង់ការបង្កើតផ្លូវលាក់អាណាព

http://www.ecy.wa.gov/programs/air/sips/designations/pm_tacoma.htm

<http://airsafepiercecounty.org>



Preguntas Más Frecuentes

Programa de Calidad de Aire

Reduciendo la Contaminación por Partículas Finas en el Área de Tacoma y del Condado de Pierce

En otoño y invierno, la contaminación al aire por partículas finas en el área de Tacoma y del Condado de Pierce puede subir rápido a niveles que superan las normas federales de calidad de aire. El EPA estableció las normas federales de calidad de aire para proteger nuestra salud y el medio ambiente.

En 2009, el EPA declaró el área “nonattainment” porque no cumplió con las normas federales diarias de calidad de aire para partículas finas. Ecología ha estado trabajando con la Agencia de Aire Limpio de Puget Sound para reducir la contaminación al aire por partículas finas a niveles más saludables, enfocándose en reducir el humo de la quema de leña.

P: ¿Qué son partículas finas?

R: Las partículas finas son pedacitos microscópicos de hollín, polvo, y ceniza que son una fracción del tamaño de un pelo humano. La contaminación por partículas finas refiere al material particulado de 2.5 micrómetros en tamaño o más pequeño (PM_{2.5}).

P: ¿De dónde viene las partículas finas?

R: La contaminación por partículas finas en el área de Tacoma y del Condado de Pierce viene mayormente del humo de quemar en estufas de leña y chimeneas. Es peor durante los meses del invierno cuando hay más hogares quemando leña para calefacción. Adicionalmente, aire estancado atrapa el humo de estos fuegos cerca al suelo y causa la acumulación rápida de la contaminación al aire.

Otras fuentes más pequeñas de la contaminación por partículas finas incluyen:

- El escape de autos y camiones,
- Polvo,
- Industrias grandes, y
- Otros motores, equipos, y vehículos que no usan la carretera, tales como equipos de construcción, buses, barcos, y trenes.

P: ¿Por qué son problemáticas las partículas finas?

R: Las partículas finas son fácilmente inhaladas profundamente adentro de nuestros pulmones y viajen al sistema donde afectan el corazón y los pulmones. La contaminación por partículas finas afecta a todas las personas, pero es más dañosa para los niños, adultos mayores, y personas con enfermedades respiratorias o cardíacas.

Es Importante Porque

Las partículas finas provocan serios efectos a la salud y puede resultar en:

- Disminución de la función del corazón y los pulmones
- Enfermedad respiratoria
- Ataques asmáticos
- Ataques cardíacos
- Accidentes cerebro-vasculares
- Muerte prematura

La reclasificación a “attainment” (cumpliendo con las normas federales de la calidad de aire) tiene varios beneficios:

- Mejora la salud pública
- Cumple con el Acto Federal de Aire Limpio
- Requiere requisitos menos estrictos para permisos de emisiones al aire de negocios nuevos o expandidos
- Continua la financiación de transportación

Contacto (en inglés):

Joanna Ekrem
(360) 407-6826
joanna.ekrem@ecy.wa.gov

Para ayuda en español, llame a Greg Bohn a (509) 454-4174 o envíe un correo electrónico a preguntas@ecy.wa.gov.

Para acomodaciones especiales o documentos en un formato alternativo, llame (360) 407-6800, 711 (servicio de retransmisión) o 887-833-6341 (TTY).

P: ¿Qué es la norma para partículas finas?

R: En 2006, el EPA fortaleció la norma federal diaria de la calidad de aire para partículas finas. Cambió el límite desde 65 microgramos por metro cúbico a 35 microgramos por metro cúbico. Partes del área de Tacoma y del Condado de Pierce superon la norma y fueron clasificadas “nonattainment” por los datos de monitoreo coleccionados de 2006 a 2008.

P: ¿Qué está haciendo para reducir la contaminación por partículas finas?

R: La Agencia de Aire Limpio de Puget Sound es la agencia de aire limpio con autoridad en el área. La Agencia de Aire Limpio trabajaba con la comunidad local y un grupo de trabajo (Task Force) hasta 2011. La meta del grupo de trabajo fue desarrollar y implementar las acciones para reducir la contaminación por partículas finas a niveles más saludables. Segun las recomendaciones del grupo del trabajo y las leyes y reglas más protectivas, la Agencia de Aire Limpio de Puget Sound empezó programas nuevos en 2012 incluyendo:

- Aumentar la vigilancia de cumplimiento durante las prohibiciones de quemar establecidas por la calidad de aire y empezar las prohibiciones a niveles de contaminación más bajos;
- Dar incentivos para remover y reemplazar estufas de leña no-certificadas;
- Remover todas las estufas de leña no-certificadas antes del septiembre de 2015;
- Aumentar el conocimiento y educar residentes sobre las prácticas de quemar limpiamente.

P: ¿Qué pasa ahora?

R: Los datos del monitoreo del Agencia de Aire Limpio de Puget Sound demuestra que la calidad de aire ha mejorado y el área está cumpliendo con la norma. Al final de 2014, Ecología pedirá que EPA apruebe el plan de calidad de aire para el área de Tacoma y del Condado de Pierce. El plan de mantenamiento explica como el área mantendrá el cumplimiento con las normas de calidad de aire para los próximos 10 años. Cuando el EPA lo aprueba, el área de Tacoma y del Condado de Pierce será reclasificado a un área de “attainment” (cumpliendo con las normas federales de la calidad de aire).

P: ¿Cómo mantendrá la calidad de aire saludable?

R: La Agencia de Aire Limpio de Puget Sound seguirá el monitoreo de la calidad de aire y continuará los programas que empezaron en 2012. Si los niveles de la contaminación por las partículas finas suban, o superen la norma de calidad de aire, la Agencia de Aire Limpio de Puget Sound tomará acción para reducir la contaminación a niveles más saludables.

P: ¿Qué puede hacer usted para mantener la calidad de aire saludable?

R: Si usted quema leña para calefacción, debe quemar leña seca. Obedezca las prohibiciones de quemar. Reemplaze su estufa de leña no-certificada con un método de calefacción más limpio.

P: ¿Dónde puede usted encontrar más información?

R: Para más información en inglés:

http://www.ecy.wa.gov/programs/air/sips/designations/pm_tacoma.htm

<http://airsafepiercecounty.org>

**DEPARTMENT OF
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Public Involvement Calendar

The Public Involvement Calendar is designed to engage the public in our decision-making process. We encourage you to read [Frequently Asked Questions about Effective Public Commenting](#).

Activities that are educational only or are co-sponsored by Ecology may be found under the "More Ecology Events" link in the left column of this page. We invite your [feedback](#) about this Public Involvement Calendar.

If you have special accommodation needs or require documents in alternative format, please contact Ecology at:

360-407-6000 (voice)
711 (relay service)
800-833-6388 (TTY)

Public Hearings, Meetings, Workshops, Open Houses

Sep 30	6 PM	Public Hearing: Tacoma Proposed Air Quality Plan for Tacoma-Pierce County Area Ecology proposes a revision to an air quality plan called a State Implementation Plan (SIP). The part of the plan being revised is for the Tacoma-Pierce County area to be reclassified to attainment (meeting federal air quality standards) for fine particles. The proposed revision also includes a 10-year plan to keep air quality healthy. Tacoma-Pierce County Nonattainment Area Website Location: Tacoma Public Library-Main Branch Olympic Room 1102 Tacoma Avenue South Tacoma, WA Map Sponsor: Dept of Ecology AIR QUALITY PM Contact: Joanna Ekrem (360) 407-6826 / jekr461@ecy.wa.gov Associated Public Comment Period: Aug 27 - Oct 3
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Public Comment Periods

Aug 7 - Sep 6	Public Comment Period: Tacoma Port of Tacoma proposed Umbrella Wetland and Habitat Conservation Bank The U.S. Army Corps of Engineers (Corps) and Washington Department of Ecology (Ecology) are considering a proposal to establish the Port of Tacoma Umbrella Wetland and Habitat Conservation Bank, in Pierce County, Washington. The proposed project is an umbrella mitigation and habitat conservation bank, meaning that multiple mitigation sites will be included in the bank. All mitigation sites will be operated under the same provisions of the Mitigation Bank Instrument(MBI). Wetland Mitigation Banking Current Public Notices Location: Tacoma, WA Sponsor: Dept of Ecology Contact: Brad Murphy (360) 407-6861 / bmur461@ecy.wa.gov
Aug 27 - Oct 3	Public Comment Period: Tacoma Proposed Air Quality Plan for Tacoma-Pierce County Area Ecology proposes a revision to an air quality plan called a State Implementation Plan (SIP). The part of the plan being revised is for the Tacoma-Pierce County area to be reclassified to attainment (meeting federal air quality standards) for fine particles. The proposed revision also includes a 10-year plan to keep air quality healthy. Tacoma-Pierce County Nonattainment Area Website Location: Tacoma, WA Sponsor: Dept of Ecology AIR QUALITY PM Contact: Joanna Ekrem (360) 407-6826 / jekr461@ecy.wa.gov Associated Public Hearing: Sep 30



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Air Quality

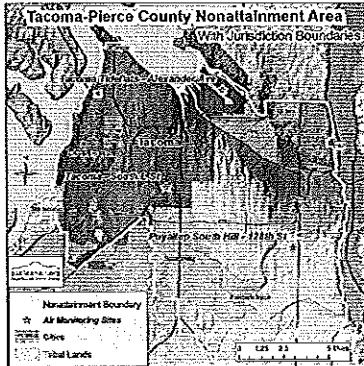
[Air Quality](#) > Air Quality Standards & Plans > Area Designations > Nonattainment Areas > Tacoma-Pierce County Nonattainment Area

Tacoma-Pierce County Nonattainment Area

A **nonattainment area** is a location that does not meet federal air quality standards for certain air pollutants. An **attainment area** is a location that meets federal air quality standards for air pollutants.

What is happening?

Ecology proposes a revision to an air quality plan called a State Implementation Plan (SIP). The revision is for the Tacoma-Pierce County area to be reclassified as an attainment area (meeting federal air quality standards) for fine particles. The plan shows that the area is meeting the fine particle limit and has the necessary pollution controls in place to meet the limit for the next 10 years. The plan will be submitted to EPA by the end of 2014. The area will be reclassified as an attainment area when EPA approves the plan.



How can you get involved?

Public comment period: August 27, 2014 - October 3, 2014

Public hearing: September 30, 2014 at 6 p.m.

Tacoma Public Library, Main Branch - Olympic Room
1102 Tacoma Avenue South

Public involvement documents:

- [Fact sheet \(Español\) \(Cambodian\)](#)
- [FAQ \(Frequently Asked Questions\) \(Español\) \(Cambodian\)](#)

To comment on the plan:

- email AQComments@ecy.wa.gov
- mail: Joanna Ekrem
Ecology Air Quality Program
P.O. Box 47600
Olympia, WA 98504-7600
- testify or submit written comments at the public hearing

Where is the nonattainment area?

The map above outlines the boundary for the Tacoma-Pierce County Nonattainment Area (aka Wapato Hills-Puyallup River Valley PM_{2.5} Nonattainment Area). Click on the map to enlarge.

Why is the area classified as nonattainment?

EPA classified the Tacoma-Pierce County area a nonattainment area because fine particle (PM_{2.5}) pollution levels did not meet healthy limits from 2006-2008. The nonattainment classification is a result of:

- a stronger air pollution limit set by EPA in 2006; and
- too many winter days when fine particle pollution levels went above the limit. Under the stronger standards, Pierce County's air quality was considered unhealthy.

Fine particle pollution in the Tacoma-Pierce County area comes mainly from smoke due to burning in wood stoves and fireplaces. It is worse during the winter months when more households are burning wood for heat. In addition, stagnant air traps the smoke from these fires close to the ground and cause air pollution to build up rapidly.

What is fine particle pollution?

Fine particles are microscopic bits of soot, dust, or smoke that are a fraction of the size of a single human hair. Fine particles (or particulate matter) is one of the six criteria air pollutants monitored and regulated under the Clean Air Act.

What are the health effects of fine particle pollution?

Fine particles are easily inhaled deep into our lungs and travel into the lungs and circulatory system. As a result, fine particles have both short- and long-term health effects. Exposure to fine particle pollution is linked to decreased heart and lung function, respiratory disease, asthma attacks, heart attacks, strokes, and premature death. Fine particle pollution affects everyone, but is most harmful to children, older adults, and people with respiratory and cardiac diseases.

What can you do to keep the air healthy?

QUICK LINKS

Documents for Public Review

- [Proposed SIP Revision:](#)
Tacoma-Pierce County PM_{2.5} Redesignation Request and Maintenance Plan
- [Appendix A: Emissions Inventories](#)
 - [Appendix B: MOVES Inputs](#)
 - [Appendix C: Motor Vehicle Emission Budget Methodology](#)
 - [Appendix D: Environmental Justice Questionnaire](#)
 - [Appendix E: Additional Resources](#)

Contact

Joanna Ekrem
joanna.ekrem@ecy.wa.gov
(360) 407-6826

- If you burn wood for heat, burn dry wood.
- Obey [burn bans](#).
- Replace your uncertified wood stove with a cleaner heating device.
- [Air Safe Pierce County](#)

What is being done to reduce fine particle pollution?

Puget Sound Clean Air Agency is working closely with the community to clean up the air and to carry out the recommendations of a task force gathered in 2011. Actions include:

- Increased enforcement during air quality burn bans
- calling burn bans at lower trigger levels
- provide incentives to remove and replace uncertified wood stoves
- remove all uncertified wood stoves by September 2015
- increased awareness and educated residents about clean burning practices

Vehicle emission standards and cleaner fuels have also helped reduce fine particle levels. In 2012, Ecology submitted a [State Implementation Plan \(SIP\) revision](#) to EPA detailing Washington's plan to improve air quality.

Maps:

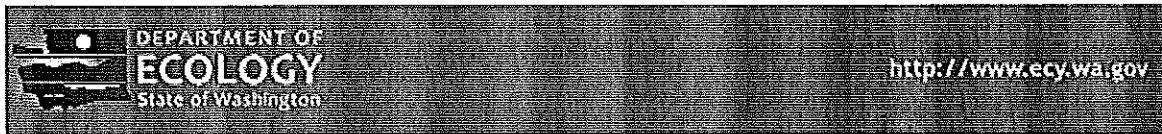
- [Major Features of the PM_{2.5} Nonattainment Area](#)
- [Detailed PM_{2.5} Nonattainment Area Map](#)

More Information:

- [Wood Stove Information](#)
- [Focus on Wood Smoke and Your Health](#)

[Contact Us](#)

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Department of Ecology News Release - August 27, 2014

Tacoma and Pierce County air quality hits the mark

Ecology asks for comments on air pollution plan

OLYMPIA – After years of hard work to reduce air pollution, a plan is being submitted to the Environmental Protection Agency that shows greater Tacoma and surrounding communities meet a federal air pollution standard.

Tacoma and Pierce County violated the federal air standard for fine particles from 2006–2008, which exposed the public to harmful air pollution, caused economic impacts to businesses and citizens, and resulted in EPA designating the area in a state of nonattainment. The fine particle pollution, at the heart of the violation, is primarily caused from residents burning wood to heat homes during winter.

"It's vital to public health that we meet federal air quality standards," said Stu Clark, Ecology Air Quality program manager. "Efforts from residents, businesses, and community leaders are paying off, but it's critical to remain focused so we continue to achieve healthier air quality levels."

Because of the violation, EPA requires Ecology and Puget Sound Clean Air Agency to submit a revision (a plan) to the State Implementation Plan. The plan shows the improvement in air quality in Tacoma and Pierce County, and outlines how to maintain and continue to decrease fine particle pollution in the area. The plan also illustrates how the area will continue to meet the federal standard for the next 10 years. If the plan is accepted, the area will be re-designated as meeting federal standards (in attainment status) and avoid further action by EPA.

How the greater Tacoma area is reducing fine particle air pollution

Puget Sound Clean Air Agency worked closely with Ecology and a community task force to reduce harmful wintertime particle pollution. These efforts continue to be implemented in the area.

Solutions to the air pollution issue include:

- Removal of all non-certified wood stoves in the non-attainment area by September 2015. An incentive program is in place to help residents remove and replace their older, polluting stoves.
- Community education and outreach.
- Enhancing burn ban enforcement.

Community involvement

The public is invited to comment on the plan, which can be reviewed on Ecology's website or in person at Ecology Headquarters, 300 Desmond Drive, Lacey, WA. Citizens also can request a mailed copy of the plan by calling 360-407-6826.

Comments are being accepted by email to AQComments@ecy.wa.gov, or mail to Joanna Ekrem, Washington Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600. Comments will be accepted through Oct. 3, 2014.

Ecology is hosting a presentation and public hearing for the community. Testimony and written comments can be submitted at the public hearing on:

Date: Sep. 30, 2014

Location: Tacoma Public Library (Olympic room), 1102 Tacoma Ave. South, Tacoma, WA

Time: 6 p.m.

Hearing contact: Joanna Ekrem, 360-407-6826, joanna.ekrem@ecy.wa.gov

Visit Ecology's website to learn more about fine particle pollution and nonattainment.

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Contact:

Camille St. Onge, communication manager, 360-584-6501, camille.st.onge@ecy.wa.gov, [@ecologyWA](#)

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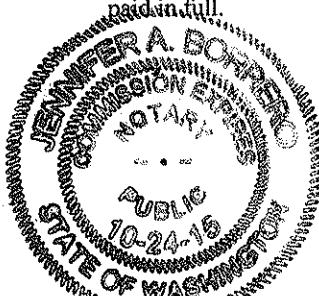
The notice in the exact form annexed, was published in regular issues of The Daily Journal of Commerce, which was regularly distributed to its subscribers during the below stated period. The annexed notice, a

PNPH:TACOMA AIR QUAL PLAN

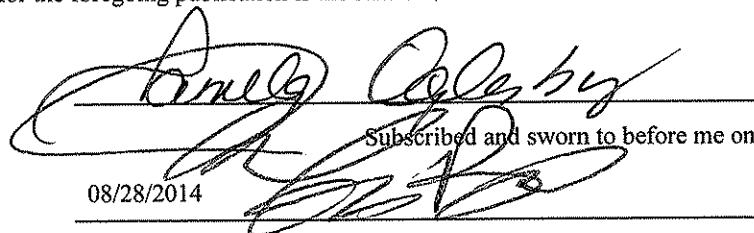
was published on

08/28/14

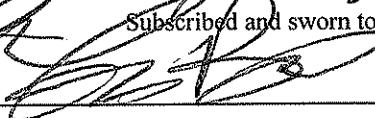
The amount of the fee charged for the foregoing publication is the sum of \$134.40 which amount has been paid in full.



Affidavit of Publication



Subscribed and sworn to before me on
08/28/2014



Notary public for the State of Washington,
residing in Seattle

State of Washington, King County

State of Washington

NOTICE OF PUBLIC COMMENT PERIOD AND PUBLIC HEARING ON PROPOSED AIR QUALITY PLAN FOR TACOMA-PIERCE COUNTY AREA

Ecology proposes a revision to an air quality plan called a State Implementation Plan (SIP). The part of the plan being revised is for the Tacoma-Pierce County area to be reclassified as attainment (meeting federal air quality standards) for fine particles. In 2009, EPA declared the area a nonattainment area because it did not meet the federal air quality standard. Since then, Ecology and Puget Sound Clean Air Agency have been working to reduce fine particle pollution, focusing mainly on reducing wood smoke. The area now has fewer days with unhealthy air quality and meets the standard. The proposed revision also includes a 10-year plan to keep air quality healthy in the Tacoma-Pierce County area.

You may review and comment on the proposed plan revision August 27, 2014–October 3, 2014. The document is available for review at http://www.ecy.wa.gov/programs/air/sips/designations/pm_tacoma.htm. A public hearing will be held September 30, 2014 at 6 p.m. at the Tacoma Public Library, Main Branch—Olympic Room (1102 Tacoma Avenue South).

To comment on the plan:

•email AQComments@ecy.wa.gov

•mail: Joanna Ekrem
Air Quality Program
Washington State Dept. of
Ecology

P.O. Box 47600
Olympia, WA 98504-7600

•testify or submit written comments at the public hearing

For more information, contact Joanna Ekrem at (360) 407-6826 or joanna.ekrem@ecy.wa.gov.

For special accommodations or documents in alternate format, call (360) 407-6800, 711 (relay service), or 877-833-6341 (TTY).

Date of publication in the Seattle Daily Journal of Commerce, August 28, 2014.

8/28(314864)

Ekrem, Joanna (ECY)

From: Ekrem, Joanna (ECY)
Sent: Wednesday, August 27, 2014 4:59 PM
To: Ekrem, Joanna (ECY)
Subject: Proposed Air Quality Plan for the Tacoma-Pierce County Nonattainment Area

The Washington State Department of Ecology is accepting comments through Oct. 3, 2014 on a proposed air quality plan for the Tacoma-Pierce County Nonattainment Area. The Environmental Protection Agency designated this area as nonattainment (not meeting a federal air quality standard) due to unhealthy levels of fine particle air pollution from 2006-2008.

Measured air pollution levels in the area now meet the federal fine particle standard. The purpose of this air quality plan is to redesignate the area to attainment and to keep air quality healthy for the next ten years. Ecology will submit this plan to EPA as a revision to the State Implementation Plan.

Ecology invites the public to comment on the proposal through October 3, 2014 and at a public hearing on September 30. For more information on the proposal and how to comment, see:

- [Ecology's website](#)
- [News release](#)

For more information, contact Joanna Ekrem at Joanna.Ekrem@ecy.wa.gov or (360) 407-6826.

Best Regards,

Joanna Ekrem

| Air Quality Planner |
| WA State Dept of Ecology |
| PO Box 47600 |
| Olympia, WA 98504-7600 |
| joanna.Ekrem@ecy.wa.gov |
| Telephone 360.407.6826 |

Ekrem, Joanna (ECY)

From: Ecology's Air Quality Rule and State Implementation Plan Updates [ECY-AQ-RULE-AND-SIP-UPDATES@LISTSERV.WA.GOV] on behalf of ECY RE AQComments [AQComments@ECY.WA.GOV]
Sent: Wednesday, August 27, 2014 4:35 PM
To: ECY-AQ-RULE-AND-SIP-UPDATES@LISTSERV.WA.GOV
Subject: Washington SIP Notice: comment period on a SIP revision; 1 EPA action

1. Ecology invites comments on a proposed State Implementation Plan revision: Tacoma-Pierce County PM2.5 Redesignation Request and Maintenance Plan

Public comment period:

- Aug. 27 to Oct. 3, 2014 at 5 p.m.

Public Hearing:

- Sept. 30, 2014 at 6pm
- Tacoma Public Library
Main Branch – Olympic Room
1102 Tacoma Ave. S.
Tacoma, WA 98402

How to submit comments:

- Testify or submit written comments at the public hearing
- Email AQComments@ecy.wa.gov
- Mail: Joanna Ekrem
Washington Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600
Phone: (360) 407-6826

More information:

- [Ecology's website](#), [news release](#), [Ecology's public involvement calendar](#)

2. EPA took the following actions on Washington's SIP submittal: Final Rule: Approval of Kent, Seattle, and Tacoma Second 10-Year PM₁₀ Limited Maintenance Plan

- More information: [federal register notice](#); [Ecology's submittal documents](#); [about the project](#)

To unsubscribe from the ECY-AQ-RULE-AND-SIP-UPDATES list, click the following link:
<http://listserv.wa.gov/cgi-bin/wa?SUBED1=ECY-AQ-RULE-AND-SIP-UPDATES&A=1>