TITLE OF INFORMATION COLLECTION: Evaluating the Pilot Los Angeles Public Library Sensor Loan Program (OMB Control Number 2080-0083; EPA ICR Number 2521.25)

INSTRUMENT: A copy of the surveys used in this collection are provided below.

A. Survey of End Users

EPA Form Number: EPA6000-005

SURVEY

Los Angeles Public Library Air Quality Sensor Loan Program

Thank you for checking out the Los Angeles Public Library's new air quality sensors! Can you help us by providing some feedback on your experience using these sensors?

This loan program is a first-of-its kind pilot program between the Los Angeles Public Library system and the U.S. Environmental Protection Agency. Your feedback on your experience using these air quality sensors is extremely important to us. It will be used to see if we should continue and expand this type of program. The information provided will remain confidential, and you will not be contacted unless you tell us you would like to be contacted to provide more feedback or to receive the results of this program. There is space on the final page to provide contact information. This page can be removed from the rest of the survey to keep your responses anonymous.

INSTRUCTIONS:

Please answer questions to the best of your ability. If you were not the main user of the air sensor you checked out, please answer on behalf of the main user, to the best of your ability. You may skip questions if you do not know the answer or are uncomfortable answering any question.

QUESTIONS:

- 1. How many people used the air sensor checked out to you?
 - 0 1 2-4 5-15 >15
- 2. Who used the air sensor checked out to you? (check all that apply)
 - Myself
 No one
 Another member of my household
 - Someone outside of my household

3.	Who outside of your household used the air sensor? (check all that apply)
	 Another family member A friend or colleague A school group or teacher A community group A faith-based organization Other (please indicate)
4.	What is the age of the person/people who used the sensor the most? (select one)
	 0-10 years old 11-14 years old 15-19 years old 20-25 years old 26-39 years old 40-62 years old 63+ years old
5.	Why did you check out an air sensor from the library? (select all that apply)
	• to learn about air quality near a pollution source in my community (like a factory or highway)
	• to provide data to decision makers (like a school official, city council, air district, etc.)
	• to make a change in my community
	• to reduce my (or my family's) exposure to air pollution
	• to learn more about air sensors and air quality
	• to conduct research or an experiment
	• to check on air quality inside my home, office, school, or another indoor environment
	• to compare air quality between locations (such as at my home vs. near downtown, etc.)
	• Other
6.	Where was the air sensor used (check all that apply)?
	• at school or daycare • at work • at home • at a place of worship • at a park or sports field
	• near a busy road, port, railroad, or other location with lots of traffic
	• near a facility (like a gas station, autobody shop, refinery, etc.)
	• while moving (in a car, walking, biking, on public transport, etc.)
	• Other

- To present the data to a decision-maker (such as a school official, supervisor, city official, etc.)
- To present the data to a group (such as a community group, neighbors, a classroom, etc.)
- To request a change be made to reduce air pollution (such as changes in policy or behavior, etc.)
- To make changes in my personal routine to reduce exposure (such as where or when I exercise, etc.)
- To reduce my own impact on air quality (such as changing how I clean my home, driving less, burning less wood, smoking less, etc.)
- To convince someone else to reduce their impact on air quality
- For a school project
- For a research project

• Other

If you would like to tell us more about how you plan to use your data, please do so here:	

- 8. How often did you use the air sensor? (select one)
 - Never Once Rarely Multiple times a day Daily Often Always
- 9. If you answered "never" "once" or "rarely" what are the reasons you did not use it often? (select all that apply)
 - I couldn't get the sensor to work I didn't have time It wasn't useful Someone else had it I lost it I didn't feel like using it I thought the sensor would be different I only needed to use it once or twice Other

Please use the space below to tell us more about why you did not use the sensor often:

- 10. How easy was it to use the sensor? (select one)
 - 1 = Very difficult
 - 2 = Somewhat difficult
 - 3 = Neither easy, nor difficult
 - 4 = Easy
 - 5 = Very easy
 - Impossible: I could not use the sensor

• 1 = Very unclear
• 2 = Somewhat unclear
• 3= Clear
• 4 = Very clear
• 5 = Extremely clear
I did not receive written instructionsI lost the instructions
12. How could we improve the instructions? (select all that apply)
 More pictures and diagrams More text Use a video More hands-on instruction at the library Make the written information easier to understand Make the air sensor easier to use Translate into another language (please tell us which language): Other If you would like to tell us more about your experience using the instructions or your recommendations for improving the instructions, please do so here:
13. Did you need help from the library while the sensor was checked out to you? (select one)
 No, I didn't need any help I needed help but found the answers myself (through a friend, website, trial and error) I needed help but did not ask for it I needed help and got help from the library I asked for help from the library but did not get help I got help from the library but it was not enough

14. How much did you learn about air pollution from participating in the air sensor loan

program? (select one)

11. How clear were the written instructions? (select all that apply)

Nothing A little A moderate amount A lot		
15. How did using the sensor make you feel about your ability to reduce your exposure to air pollution?		
• More able to reduce exposure • Did not affect my ability to reduce exposure • Less able to reduce exposure • Other (please explain):		
16. Did you understand this sensor only measures particulate matter pollution?		
 Yes ● No ● I don't know what that means 		
17. Are you interested in using sensors that measure other types of pollutants?		
Yes, I would like to measure these pollutants (please list)		
Yes, but I don't know which pollutants		
• No		
• I don't know		
18. Please rate how easy or difficult it was to access the data you collected?		
• 1 = Very difficult		
• 2 = Somewhat difficult		
• 3 = Neither easy, nor difficult		
• 4 = Easy		
• 5 = Very easy		
I was not able to access the data		
19. Please rate how easy or difficult it was to understand the data you collected?		
• 1 = Very difficult		
• 2 = Somewhat difficult		
• 3 = Neither easy, nor difficult		
• 4 = Easy		
• 5 = Very easy		

20. How did you hear about the air sensor loan program? (select all that apply)
• a librarian
a flier at the library
• a flier in the community (where?)
Social media (please list)
• Email
• a website
• a friend
• a colleague
• a teacher
• a student
someone in my community
a member of my faith-based community
• Other
21. Do you have any recommendations for improving this loan program?

22. Is there anything else you'd like to tell us about your experience using these air sensors (difficulties, how you used the data, etc.)?

• I was not able to understand the data

OPTIONAL: SOLICITING INTEREST IN FOCUS GROUP

Thank you for providing feedback on your experience using air quality sensors! We may form a small focus group to get more in-depth feedback from people who borrowed an air sensor. Participation would be completely voluntary and unpaid. If you would be interested in providing more feedback through a focus group, please provide your first name and a way to contact you.

Please separate this page from your completed survey if you would like your answers to the survey to be anonymous.

First Name:
Email Address:
Phone Number: ()
OPTIONAL: RECEIVING RESULTS OF THIS PROGRAM
Thank you for providing feedback on your experience using air quality sensors! We will be analyzing the results of surveys collected from people who used the sensors and from participating librarians and will write a report of the findings. If you would like to receive a copy of the report, please provide your email address. If you do not have an email address, please provide your phone number and someone will contact you to obtain a mailing address.
Please separate this page from your completed survey if you would like your answers to the survey to be anonymous.
First Name:
Email Address:
Phone Number: ()

EPA Form Number: EPA6000-006

SURVEY

Los Angeles Public Library Air Quality Sensor Loan Program

Thank you for helping pilot the Los Angeles Public Library Air Quality Sensor Loan Program! Can you help us by providing some feedback on your experience with this program?

This loan program is a first-of-its kind pilot program between the Los Angeles Public Library system and the U.S. Environmental Protection Agency. Your feedback on your experience loaning these sensors to library patrons is extremely important to us. It will be used to see if we should continue and expand this type of program, will help us understand and address some of the barriers and challenges you may have encountered, as well as help us make improvements to the training, technical support, and instructional materials used. The information provided will remain confidential, and you will not be contacted unless you tell us you would like to be contacted to provide more feedback or to receive the results of this program. There is space on the final page to provide contact information. This page can be removed from the rest of the survey to keep your responses anonymous.

INSTRUCTIONS:

Please answer questions to the best of your ability. You may skip questions if you do not know the answer or if you are uncomfortable answering any question.

QUESTIONS:

- 1. Which training did you attend (select all that apply)?
 - The training conducted by the US Environmental Protection Agency The training conducted by other librarians I did not attend any training
- 2. Please **rate your confidence** level in responding to a library patron asking you the following questions. Select one answer for each question.
 - A. What are some types of air pollutants?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident

- 4 = Moderately confident
- 5 = Very confident
- B. What is PM2.5 and PM10?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
- C. Where does PM2.5 come from?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
- D. How can I reduce my exposure to PM2.5?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
- 3. Please rate **how confident** you would feel helping library patrons in the following scenarios (select one for each scenario):
 - A. A patron is concerned about pollution from a freeway near their home and asks if the library's sensors could help them measure the pollution.
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
 - B. Providing a demonstration on how to use the sensor.

- 1 = Very unconfident
- 2 = Slightly unconfident
- 3 = Slightly confident
- 4 = Moderately confident
- 5 = Very confident
- C. A library patron who has checked out a sensor calls and tells you they cannot get the sensor to work (for example, trouble charging, seeing the screen, or hearing it work) and asks for your help.
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
- D. A library patron who has checked out a sensor calls and asks how to access the data they collected (for example, can't access the web portal, see data, download data, or open and manipulate a downloaded data file).
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
- E. Explaining possible reasons for the differences in air pollution levels measured by a sensor vs levels reported by another source of data (such as a monitor from the South Coast Air Quality Management District or AirNow).
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
- 4. If a library patron were to ask you where to find information about air pollution levels in their community, where would you tell them to go for information (select all that apply)?

• South Coast Air Quality Management District's website • AirNow website • A Weather app • A private air sensor data website (like PurpleAir) • Other (please list)

- 5. Did you understand this sensor only measures particulate matter pollution?
 - Yes No I don't know what that means
- 6. Are you interested in loaning sensors that measure other types of pollutants?
 - Yes, I would like to loan sensors that measure these pollutants (please name):

- Yes, but I don't know which pollutants
- No
- I don't know
- 7. Please indicate how difficult was it for you to learn to use the sensor? (select one)
 - 1 = Very difficult
 - 2 = Slightly Difficult
 - 3 = Neither easy, nor difficult
 - 4 = Easy
 - 5 = Very easy
 - I could not learn how to use the sensor.
- 8. How difficult was it for a typical library patron to learn to use the sensor? (select one)
 - 1 = Very difficult
 - 2 = Slightly Difficult
 - 3 = Neither easy, nor difficult
 - 4 = Easy
 - 5 = Very easy
 - library patrons could not learn to use the sensor
 - I don't know
- 9. Did you notice if certain groups of users had a harder time using the sensor than other groups?
 - No
 - Yes, the following groups seemed to have a harder time (please list or explain):

	n groups of users seemed interested in the sensor, but tended to no ked about them, but seemed concerned about learning how to use out other challenges?)
No, I did not experier	nce this
 Some people asked a pattern 	bout the sensors but did not check them out, but there was no
 Yes, the following gro out (please list or ex 	oups seemed to be interested but did not tend to check the sensors plain):
11. How helpful was the se	nsor quick start guide? (select one)
• Not helpful at all • A guides • I lost the quic	A little helpful • Very helpful • I did not receive the quick start k start guides
12. How clear was the sens	sor quick start guide? (select all that apply)
 It was very easy to fo It was a little easy to It was challenging to The quick start guide 	follow the instructions follow the instructions
13. How could we improve	the sensor quick start guide? (select all that apply)
 More pictures and dia More text Use a video More hands-on instru 	

14. How helpful was the environmental education curriculum you received? (select one)

• Not helpful at all • A little helpful • Very helpful • I did not receive the curriculum • I lost the curriculum
15. How could we improve the curriculum?
16. Please rate how satisfied you are with the training you received on air quality and sensors? (select one)
• 1 = Dissatisfied
• 2 = Slightly dissatisfied
• 3 = Somewhat satisfied
• 4 = Satisfied
• 5 = Very satisfied
 17. Overall, how prepared did you feel to start and implement the loan program? (select one) 1 = Very unprepared
• 2 = Moderately unprepared
• 3 = Moderately prepared
• 4 = Prepared
• 5 = Very prepared
18. If you encountered difficulty with the sensors or had questions from library patrons or other librarians you needed help answering, how satisfied are you with the amount of technical support you received? (select one)
• 1 = Dissatisfied
• 2 = Slightly dissatisfied
• 3 = Somewhat satisfied
• 4 = Satisfied
• 5 = Very satisfied
Not applicable

- 19. Overall, how satisfied are you with the pilot sensor loan program (select one)?
 - 1 = Dissatisfied
 - 2 = Slightly dissatisfied
 - 3 = Somewhat satisfied
 - 4 = Satisfied
 - 5 = Very satisfied
- 20. How much would you support continuing the pilot program as a permanent part of the library's offerings? (select one)
 - I strongly support continuing this program I somewhat support continuing this program I do not support continuing this program I would support continuing this program but do not want to be involved
- 21. Which statement best reflects how you feel about the amount of time expended on the following aspects of the pilot loan program? (select one per item)
 - A. Amount of time spent on the pilot program, overall:
 - 1 = I would have liked to have spent a lot more time on this
 - 2 = I needed a little more time on this
 - 3 = The time spent was just right
 - 4 = I spent a little too much time on this
 - 5 = I spent way too much time on this
 - I did not spend any time on this
 - B. Amount of time spent getting trained on air quality and sensors (including time you spent on your own becoming familiar with the sensors):
 - 1 = I would have liked to have spent a lot more time on this
 - 2 = I needed a little more time on this
 - 3 = The time spent was just right

• 4 = I spent a little too much time on this
• 5 = I spent way too much time on this
I did not spend any time on this
C. Amount of time spent preparing for the start of the loan program (setting up loan procedures, preparing materials, training other librarians, etc):
• 1 = I would have liked to have spent a lot more time on this
• 2 = I needed a little more time on this
• 3 = The time spent was just right
• 4 = I spent a little too much time on this
• 5 = I spent way too much time on this
• I did not spend any time on this
About how many hours total did you spend on this activity?
D. Amount of time spent training community members on air quality and sensor use:
• 1 = I would have liked to have spent a lot more time on this
• 2 = I needed a little more time on this
• 3 = The time spent was just right
• 4 = I spent a little too much time on this
• 5 = I spent way too much time on this
I did not spend any time on this
About how many hours total did you spend on this activity?
C. Annual of the consent translated by the consent annual by with library and the consent and the consent translated by th

- E. Amount of time spent troubleshooting sensor operation with library patrons or other librarians:
- 1 = I would have liked to have spent a lot more time on this
- 2 = I needed a little more time on this
- 3 = The time spent was just right
- 4 = I spent a little too much time on this

• 5 = I spent way too much time on this
I did not spend any time on this
About how many hours/week did you spend on this activity?
F. Amount of time spent answering questions from library patrons or other librarians about air quality or sensor data:
• 1 = I would have liked to have spent a lot more time on this
• 2 = I needed a little more time on this
• 3 = The time spent was just right
• 4 = I spent a little too much time on this
• 5 = I spent way too much time on this
I did not spend any time on this
About how many hours/week did you spend on this activity?
G. Amount of time spent on other tasks related to the pilot sensor loan program not captured above (Please also explain what these tasks were.):
• 1 = I would have liked to have spent a lot more time on this
• 2 = I needed a little more time on this
• 3 = The time spent was just right
• 4 = I spent a little too much time on this
• 5 = I spent way too much time on this
I did not spend any time on this
About how many hours/week did you spend on these other activities?
Explanation:
22. How did your library let patrons know about the sensor loan program?

23. Which age group seem	ed most interested in using the sensors?
• Children (0-12) • Teens	(13-18) • College Students • Adults (19-61) • Seniors (62+)
24. What was the most suc	ccessful, creative, or interesting use of the sensors that you heard of
change (such as reduci	users changing their personal behavior or advocating for policy ng wood burning, changing to a less polluted walking route, or ision makers)? If yes, please share some examples.
26. What were the greates	et challenges in implementing the loan program?

	Based on your personal experience and your interaction with library patrons using the sensor, complete this sentence: "The sensor was great, but I really wished it:"
28 V	What recommendations do you have for improving the loan program (for instance, amount
(or type of training, time spent training, instructions or curriculum, resource list, train-the-crainer program, advertising, etc)?
	Now that the pilot loan period is complete, is there any support you still need on the sensors, training, or the data?

OPTIONAL: SOLICITING INTEREST IN FOCUS GROUP

Thank you for providing feedback on your experience loaning air quality sensors! We may form a small focus group to get more in-depth feedback from librarians and people who borrowed an air sensor. Participation would be completely voluntary and unpaid. If you would be interested in providing more feedback through a focus group, please provide your first name and a way to contact you. Please separate this page from your completed survey if you would like your answers to the survey to be anonymous.

First Name:				
Email Address:				
Phone Number: ()			

C. Survey of Lead Librarians, post-training

EPA Form Number: EPA6000-005

LEAD LIBRARIAN POST TRAINING SURVEY Los Angeles Public Library Air Quality Sensor Loan Program

Thank you for helping pilot the Los Angeles Public Library Air Quality Sensor Loan Program! Can you help us by providing some feedback on the training you just received?

This loan program is a first-of-its kind pilot program between the Los Angeles Public Library system and the U.S. Environmental Protection Agency. Your feedback on the quality and content of the training is very important to us. It will be used to determine if additional support is needed to make this pilot a success and to improve the training for future uses. The information you provide will remain anonymous, unless you choose to provide your name and contact information to provide additional feedback (Question ___).

INSTRUCTIONS:

Please answer questions to the best of your ability. You may skip questions if you do not know the answer or if you are uncomfortable answering any question.

QUESTIONS:

- 1. How would you rate your overall satisfaction with the training? (select one)
 - Very satisfied
 Moderately satisfied
 A little satisfied
 A little unsatisfied
- 2. How would you rate your overall satisfaction with the trainers? (select one)
 - Very satisfied
 Moderately satisfied
 A little satisfied
 A little unsatisfied
 Very unsatisfied
- 3. How would you rate your overall satisfaction with the instructional materials used in the training? (select one)
 - Very satisfied
 Moderately satisfied
 A little satisfied
 A little unsatisfied
 Very unsatisfied
- 4. Did you practice using the sensors? (select one)

5.	If you answered yes to Question 4, how difficult was it to use the sensor? (select one)
	• Not difficult at all • A little difficult • Very difficult • Impossible
6.	How helpful were the verbal instructions for operating the sensor? (select one)
	• Not helpful at all • A little helpful • Very helpful • I did not hear the instructions
7.	How clear were the written instructions for operating the sensor (quick start guide)? (select all that apply)
	 It was very easy to follow the instructions It was a little easy to follow the instructions It was challenging to follow the instructions The instructions did not help at all
8.	How could we improve the quick start guide? (select all that apply)
	 More pictures and diagrams More text Use a video More hands-on instruction at the library Make the text easier to understand Make the air sensor easier to use Translate into another language (specify which languages):
	• Other
9.	How helpful was the environmental education curriculum you received? (select one) • Not helpful at all • A little helpful • Very helpful • I did not receive the curriculum • I lost the curriculum
10.	How could we improve the curriculum?
11	How would you feel if the training was web-based and not in-person? (select one)

• Yes • No

- In-person was essential I prefer in-person, but web-based could also work web-based training would have been just as good as in-person I would prefer web-based I don't know
- 12. How prepared do you feel to train other librarians on the air quality concepts covered in today's training? (select one)
 - Very prepared Somewhat prepared A little prepared Not prepared at all
- 13. Please **rate your confidence** level in responding to a library patron asking you the following questions. Select one answer for each question.
 - E. What are some types of air pollutants?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
 - F. What is PM2.5 and PM10?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
 - G. Where does PM2.5 come from?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
 - H. How can I reduce my exposure to PM2.5?
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident

- 4 = Moderately confident
- 5 = Very confident
- 14. Please rate **how confident** you would feel helping library patrons in the following scenarios (select one for each scenario):
 - A. A patron is concerned about pollution from a freeway near their home and asks if the library's sensors could help them measure the pollution.
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
 - B. Providing a demonstration on how to use the sensor.
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
 - C. A library patron who has checked out a sensor calls and tells you they cannot get the sensor to work (for example, trouble charging, seeing the screen, or hearing it work) and asks for your help.
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident
 - 5 = Very confident
 - D. A library patron who has checked out a sensor calls and asks how to access the data they collected (for example, can't access the web portal, see data, download data, or open and manipulate a downloaded data file).
 - 1 = Very unconfident
 - 2 = Slightly unconfident
 - 3 = Slightly confident
 - 4 = Moderately confident

		• 5 = Very confident
	E.	Explaining possible reasons for the differences in air pollution levels measured by a sensor vs levels reported by another source of data (such as a monitor from the South Coast Air Quality Management District or AirNow).
		 1 = Very unconfident 2 = Slightly unconfident 3 = Slightly confident 4 = Moderately confident 5 = Very confident
15.	Do	you understand this sensor only measures particulate matter pollution?
	• \	res ● No ● I don't know what that means
16.		nat additional training or support do you need to be able to train other librarians, assist trons, or otherwise implement the pilot sensor loan program?
17.	WI	nat suggestions do you have for improving the training?