MONITORING SURVEY RESULTS

FOR THE REVISED CCMP FOR THE DELAWARE ESTUARY

JANUARY 2019

This document provides a summary of the results compiled from an online survey administered between November 29, 2018 and December 14, 2018. The survey was created to help vet and prioritize information gathered at the October 30, 2018 Monitoring Workshop. This document was created by RK&K to inform the Monitoring Assessment process being led by the Partnership for the Delaware Estuary.

INTRODUCTION

As part of the revised Comprehensive Conservation and Management Plan (CCMP) for the Delaware Estuary, a Monitoring Approach was created to help track strategy implementation and progress on CCMP goals. The vision established by the Monitoring Approach involves convening a monitoring workshop every five years to assess critical monitoring projects in the region. The Monitoring Assessment would provide a baseline for regional monitoring programs and data infrastructure, help to link related monitoring efforts, and provide the opportunity to explore new connections among ecosystem features.

In the fall of 2018, PDE worked with RK&K to undertake two efforts. First, to compile an inventory of monitoring activities being undertaken in the Delaware Estuary region. Second, to hold a monitoring workshop at the John Heinz National Wildlife Refuge at Tinicum on Tuesday, October 30th, with the objectives of reviewing the draft inventory of monitoring programs, identifying gaps in data collection, and gathering input to help prioritize future monitoring efforts. Information gathered at the workshop was summarized and distilled to create questions for a follow-up survey.

THE MONITORING SURVEY

The purpose of the survey was to vet results from the workshop, aid in prioritizing and ranking results from the workshop, and gather additional information. RK&K sent a request to participate in the survey to PDE's list of nearly 300 experts (including those who took part in the monitoring workshop). The survey was structured to reflect the same thematic discussions that took place at the workshop, wherein the monitoring inventory was broken into four sets of parameters: non-plant living resources, plants and habitat, water quality in the Delaware River and Bay, and water quality in the tributaries. For each of these four main sections of the survey, respondents were asked to rank the importance of various parameters in a list; indicate high, medium, or low priority of that same set of parameters; provide information on whether additional parameters within that category should be considered; and provide information on any geographic data gaps in data collected within that category. Aside from the four main sections of the survey, participants were also asked to provide identifying information, give information about volunteer monitoring groups whose information should be included in the monitoring inventory, and provide information about the general security of their organization's monitoring funds.

Fifty-five people from 34 organizations, companies, and universities began the survey; of that number, 39 pursued the survey to completion and 16 responded to some but not all of the questions. All information,

including summary data and answers from each respondent, are included in the attached SurveyMonkey documents.

SURVEY TEXT AND SUMMARY RESULTS

Thank you for participating in the Delaware Estuary Monitoring Survey. The goals of this survey are to vet the results from the October 30th Monitoring Workshop, to aid in prioritizing/ranking results of the workshop, and to gather additional information. Please refer to the list of all Delaware Estuary Monitoring programs (as collected during this process) here [LINK], and leave it open while completing the survey.

IDENTIFYING INFORMATION

1. Please enter your contact information. Fifty-five people provided their information.
2. Select your area(s) of expertise (please select all that apply). Fifty-five people provided their information. Of the 21 options provided (including "other"), most respondents selected "water quality" (34 respondents), followed by "coastal ecology/function" (22 respondents).

WORKSHOP RESULTS: NON-PLANT LIVING RESOURCES

3. Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

    a. Freshwater bivalves (Score: 2.89; Rank: 2)
    b. Invasive species (Score: 2.98; Rank: 1)
    c. Marine mammals and sea turtles (Score: 1.59; Rank: 4)
    d. Population-level monitoring (Score: 2.69; Rank: 3)

4. Here is a list of non-plant living resource parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

    a. Freshwater bivalves (Weighted Average: 2.40; 24/45 recommended high priority)
    b. Invasive species (Weighted Average: 2.51; 25/45 recommended high priority)
    c. Marine mammals and sea turtles (Weighted Average: 1.71; 7/45 recommended high priority)
    d. Population-level monitoring (Weighted Average: 2.36; 19/45 recommended high priority)

5. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future? Twenty respondents provided information. Please see SurveyMonkey documents for information.

6. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts in the future? Twenty-one respondents provided information. Please see SurveyMonkey documents for information.

Workshop Results: Plants and Habitat

7. Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

    a. Buffer data (Score: 3.42; Rank: 6)
    b. Cumulative impacts (Score: 5.47; Rank: 1)
    c. Dredging data (Score: 4.03; Rank: 3)
    d. Forest health (Score: 3.83; Rank: 5)
    e. Sediment stratification (Score: 3.00; Rank 7)
    f. Submerged habitat (Score: 4.57; Rank: 2)
    g. Transition zone monitoring (Score: 4.00; Rank: 4)

8. Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think it is a low priority, a moderate priority, or a high priority.

    a. Buffer data (Weighted Average: 2.00; 11/37 recommended high priority)
    b. Cumulative impacts (Weighted Average: 2.69; 29/39 recommended high priority)
    c. Dredging data (Weighted Average: 2.08; 13/39 recommended high priority)
    d. Forest health (Weighted Average: 2.13; 11/38 recommended high priority)
    e. Sediment stratification (Weighted Average: 1.81; 6/36 recommended high priority)
    f. Submerged habitat (Weighted Average: 2.38; 18/39 recommended high priority)
    g. Transition zone monitoring (Weighted Average: 2.19; 14/37 recommended high priority)

9. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future? Seventeen respondents provided information. Please see SurveyMonkey documents for more information.

10. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts in the future? Sixteen respondents provided information. Please see SurveyMonkey documents for more information.

Workshop Results: Water Monitoring – Delaware River and Bay

11. Here is a list of Delaware River and Bay water monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing parameters or not-yet robust monitoring parameters.
    a. Endocrine Disruptors (Score: 4.51; Rank: 2)
    b. Fish tissue analysis for bioaccumulating compounds (Score: 4.89; Rank: 1)
    c. Microplastics (Score: 4.08; Rank: 4/5)
    d. Monitoring conducted on the center channel replicated for the banks and at additional depths (Score: 3.05; Rank: 7)
    e. PCBs (Score: 3.51; Rank: 6)
    f. Pharmaceuticals (Score: 4.36; Rank: 3)
    g. Phytotoxins, Cyanotoxins, Harmful Algal Bloom Toxins (Score: 4.08; Rank: 4/5)

12. Here is a list of Delaware River and Bay water monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think it is a low priority, a moderate priority, or a high priority.

    a. Endocrine Disruptors (Weighted Average: 2.48; 20/40 recommended high priority)
    b. Fish tissue analysis for bioaccumulating compounds (Weighted Average: 2.62; 26/39 recommended high priority)
    c. Microplastics (Weighted Average: 2.27; 19/40 recommended high priority)
    d. Monitoring conducted on the center channel replicated for the banks and at additional depths (Weighted Average: 2.10; 15/39 recommended high priority)
    e. PCBs (Weighted Average: 2.21; 13/39 recommended high priority)
    f. Pharmaceuticals (Weighted Average: 2.56; 23/39 recommended high priority)
    g. Phytotoxins, Cyanotoxins, Harmful Algal Bloom Toxins (Weighted Average: 2.42; 21/40 recommended high priority)

13. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future? Fourteen respondents provided information. Please see SurveyMonkey documents for more information.

14. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts in the future? Fourteen respondents provided information. Please see SurveyMonkey documents for more information.

Workshop Results: Water Monitoring – Tributaries

15. Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

    a. Endocrine disruptors (Score: 4.51; Rank 5)
    b. Fish tissue analysis (Score: 5.29; Rank 3)
    c. Flow measurements (Score: 5.36; Rank 2)
    d. Groundwater (Score: 5.03; Rank 4)
    e. Nuisance algal blooms (Score: 3.56; Rank 7)
    f. Pharmaceuticals (Score: 4.08; Rank 6)
    g. Temperatures at short intervals (Score: 3.14; Rank 8)
    h. Wet weather (storm flow) monitoring (Score: 5.51; Rank 1)

16. Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think it is a low priority, a moderate priority, or a high priority.

    a. Endocrine disruptors (Weighted Average: 2.25; 17/36 recommended high priority)
    b. Fish tissue analysis (Weighted Average: 2.47; 19/36 recommended high priority)
    c. Flow measurements (Weighted Average: 2.50; 19/36 recommended high priority)
    d. Groundwater (Weighted Average: 2.46; 20/35 recommended high priority)

e. Nuisance algal blooms (Weighted Average: 2.11; 12/36 recommended high priority)
f. Pharmaceuticals (Weighted Average: 2.20; 14/35 recommended high priority)
g. Temperatures at short intervals (Weighted Average: 1.86; 22/36 recommended high priority)
h. Wet weather (storm flow) monitoring (Weighted Average: 2.61; 22/36 recommended high priority)

17. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future? Eleven respondents provided information. Please see SurveyMonkey documents for more information.

18. Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts in the future? Eleven respondents provided information. Please see SurveyMonkey documents for more information.

Additional Monitoring Programs and Funding

19. Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?
    a. Yes (10)
    b. No (27)

20. If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)? Nine respondents provided information. Please see the SurveyMonkey documents for more information.

21. Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs and activities within the Delaware Estuary?
    a. Yes (9)
    b. No (8)
    c. Uncertain (21)

22. If you answered "no" for Question 21, what level of funding is needed for which program? Nine respondents provided information. Please see the SurveyMonkey documents for more information.

If you have not yet contributed a list of your past or current monitoring programs to the inventory, it's not too late! Please email Sari Rothrock at SRothrock@rkk.com to request a worksheet for submission.

Thank you for your time.

APPENDIX A

SURVEYMONKEY SUMMARY OF ALL SURVEY RESPONSES

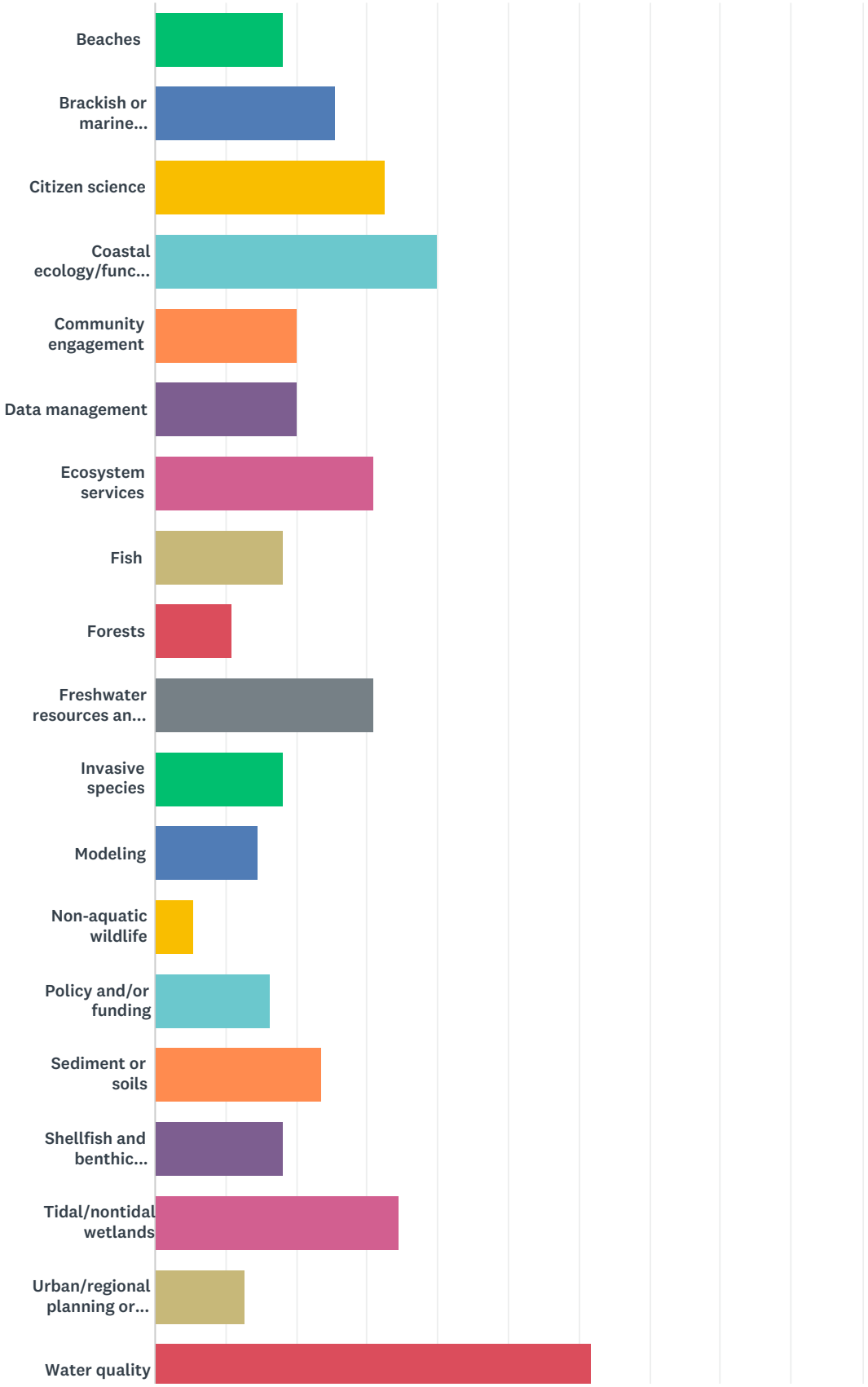
Q1 Please enter your contact information.

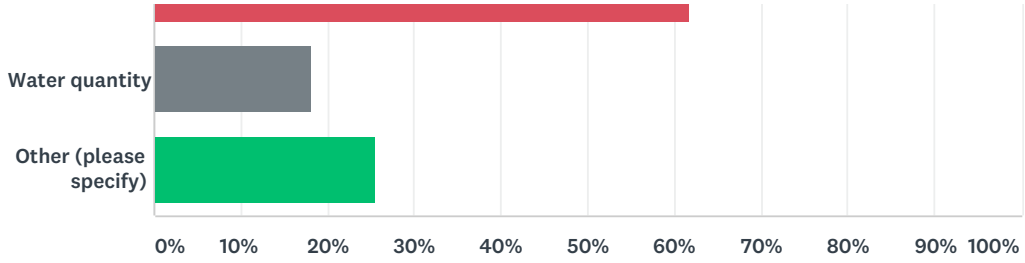
Answered: 55 Skipped: 0

ANSWER CHOICES	RESPONSES	
Name	100.00%	55
Organization	100.00%	55
Address	0.00%	0
Address 2	0.00%	0
City / Town	0.00%	0
State/Province	0.00%	0
ZIP/Postal Code	0.00%	0
Country	0.00%	0
Email Address	100.00%	55
Phone Number	0.00%	0

Q2 Select your area(s) of expertise (please select all that apply)

Answered: 55 Skipped: 0

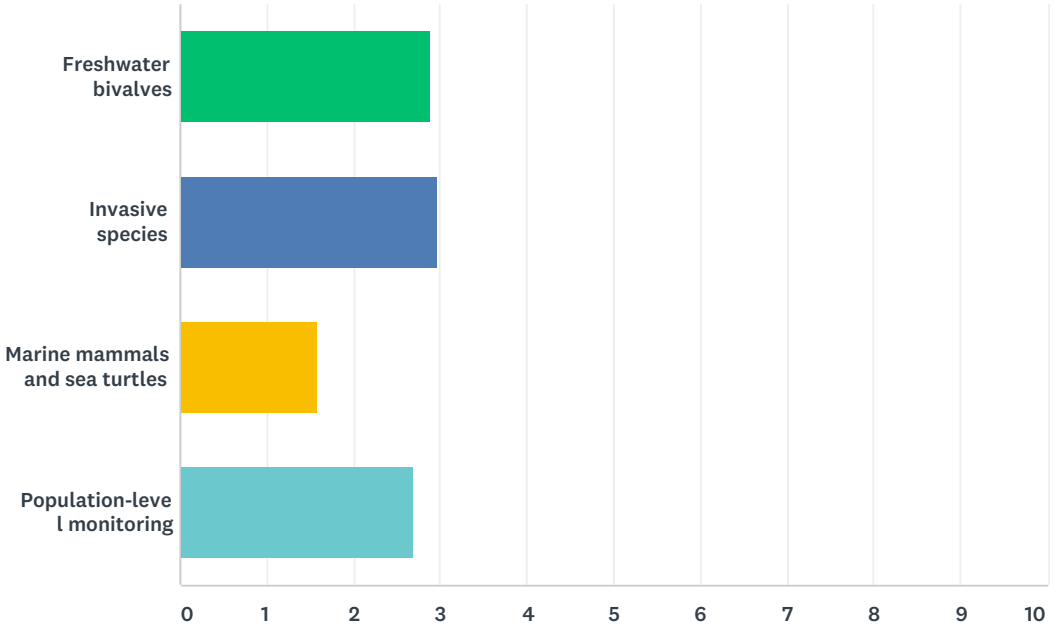




ANSWER CHOICES	RESPONSES	
Beaches	18.18%	10
Brackish or marine resources and organisms	25.45%	14
Citizen science	32.73%	18
Coastal ecology/function	40.00%	22
Community engagement	20.00%	11
Data management	20.00%	11
Ecosystem services	30.91%	17
Fish	18.18%	10
Forests	10.91%	6
Freshwater resources and organisms	30.91%	17
Invasive species	18.18%	10
Modeling	14.55%	8
Non-aquatic wildlife	5.45%	3
Policy and/or funding	16.36%	9
Sediment or soils	23.64%	13
Shellfish and benthic resources	18.18%	10
Tidal/nontidal wetlands	34.55%	19
Urban/regional planning or land use	12.73%	7
Water quality	61.82%	34
Water quantity	18.18%	10
Other (please specify)	25.45%	14
Total Respondents: 55		

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

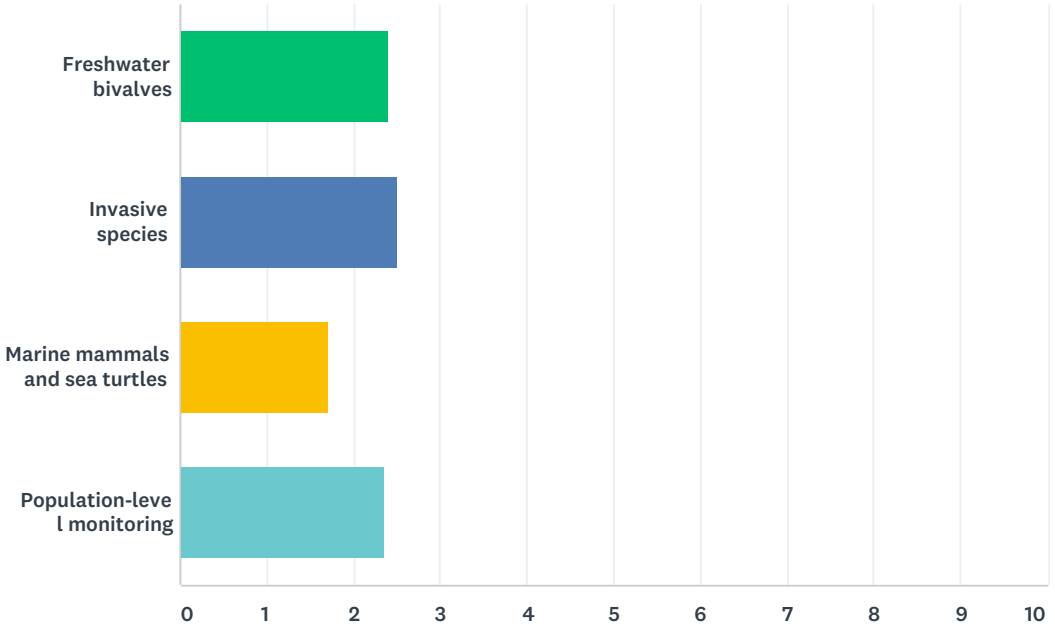
Answered: 47 Skipped: 8



	1	2	3	4	TOTAL	SCORE
Freshwater bivalves	31.82% 14	31.82% 14	29.55% 13	6.82% 3	44	2.89
Invasive species	39.53% 17	27.91% 12	23.26% 10	9.30% 4	43	2.98
Marine mammals and sea turtles	9.09% 4	9.09% 4	13.64% 6	68.18% 30	44	1.59
Population-level monitoring	26.67% 12	28.89% 13	31.11% 14	13.33% 6	45	2.69

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Answered: 45 Skipped: 10



	LOW PRIORITY	MODERATE PRIORITY	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
Freshwater bivalves	13.33% 6	33.33% 15	53.33% 24	45	2.40
Invasive species	4.44% 2	40.00% 18	55.56% 25	45	2.51
Marine mammals and sea turtles	44.44% 20	40.00% 18	15.56% 7	45	1.71
Population-level monitoring	6.67% 3	51.11% 23	42.22% 19	45	2.36

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

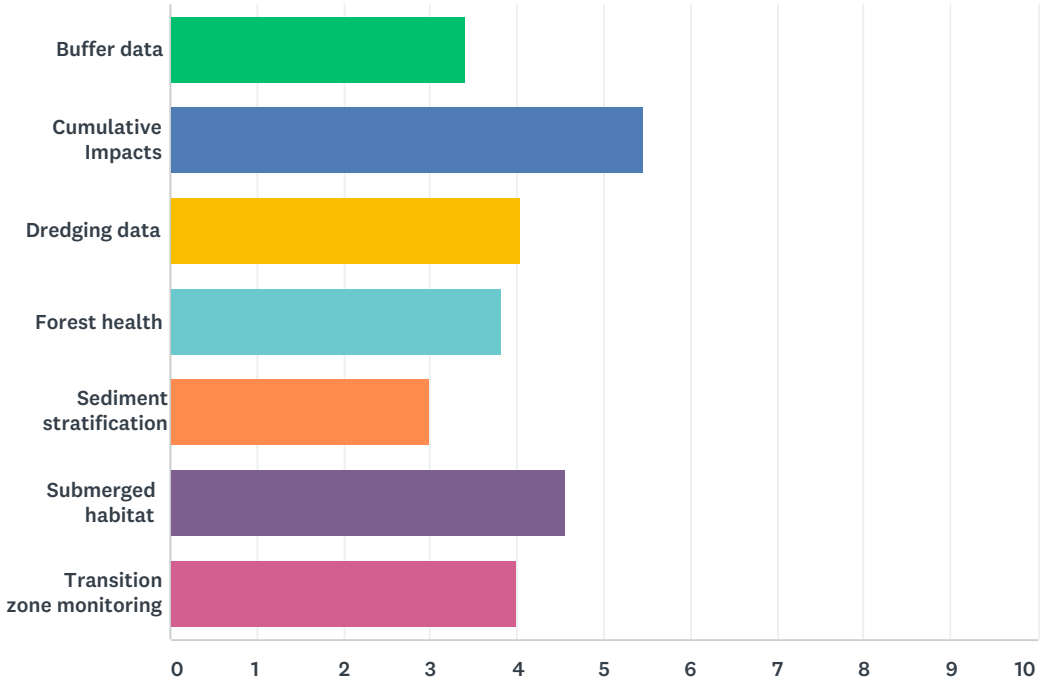
Answered: 20 Skipped: 35

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Answered: 21 Skipped: 34

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

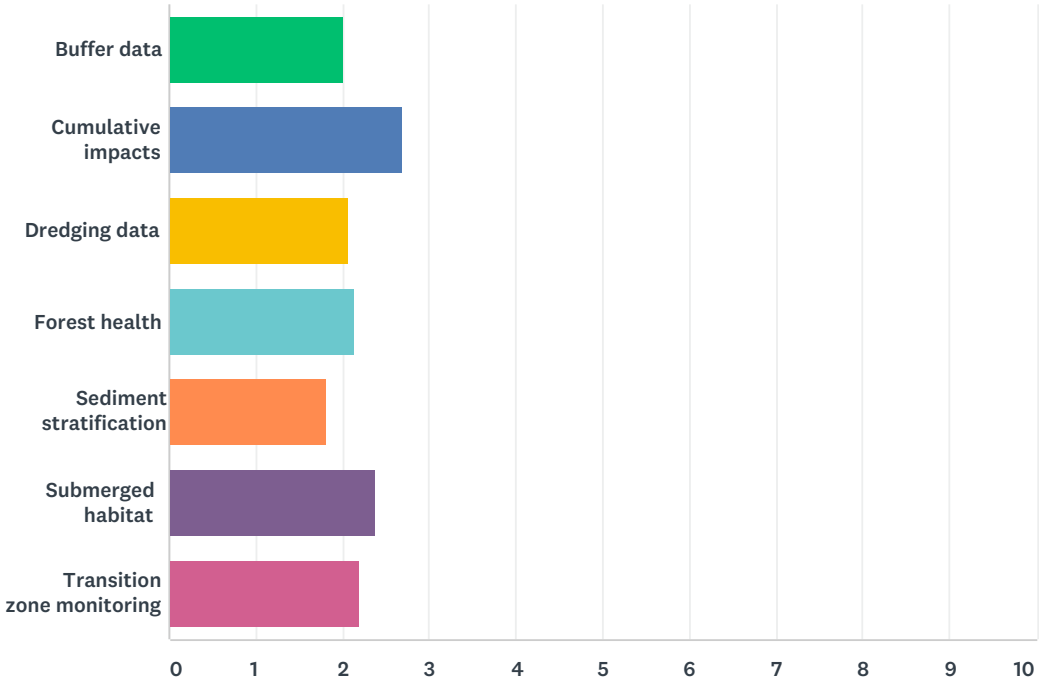
Answered: 40 Skipped: 15



	1	2	3	4	5	6	7	TOTAL	SCORE
Buffer data	8.33% 3	13.89% 5	8.33% 3	13.89% 5	11.11% 4	25.00% 9	19.44% 7	36	3.42
Cumulative Impacts	42.11% 16	13.16% 5	15.79% 6	15.79% 6	7.89% 3	2.63% 1	2.63% 1	38	5.47
Dredging data	13.51% 5	13.51% 5	21.62% 8	8.11% 3	18.92% 7	5.41% 2	18.92% 7	37	4.03
Forest health	11.11% 4	22.22% 8	8.33% 3	11.11% 4	11.11% 4	16.67% 6	19.44% 7	36	3.83
Sediment stratification	0.00% 0	13.89% 5	0.00% 0	22.22% 8	22.22% 8	19.44% 7	22.22% 8	36	3.00
Submerged habitat	21.62% 8	5.41% 2	27.03% 10	16.22% 6	16.22% 6	10.81% 4	2.70% 1	37	4.57
Transition zone monitoring	10.26% 4	17.95% 7	17.95% 7	12.82% 5	10.26% 4	17.95% 7	12.82% 5	39	4.00

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Answered: 39 Skipped: 16



	LOW PRIORITY	MODERATE PRIORITY	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
Buffer data	29.73% 11	40.54% 15	29.73% 11	37	2.00
Cumulative impacts	5.13% 2	20.51% 8	74.36% 29	39	2.69
Dredging data	25.64% 10	41.03% 16	33.33% 13	39	2.08
Forest health	15.79% 6	55.26% 21	28.95% 11	38	2.13
Sediment stratification	36.11% 13	47.22% 17	16.67% 6	36	1.81
Submerged habitat	7.69% 3	46.15% 18	46.15% 18	39	2.38
Transition zone monitoring	18.92% 7	43.24% 16	37.84% 14	37	2.19

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

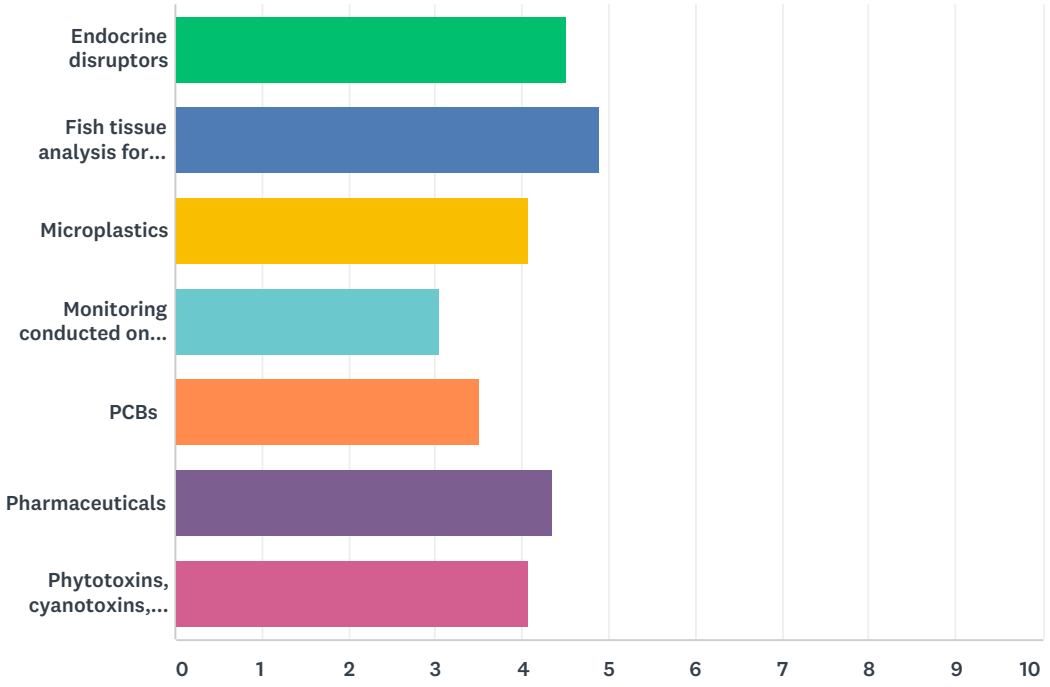
Answered: 17 Skipped: 38

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Answered: 16 Skipped: 39

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

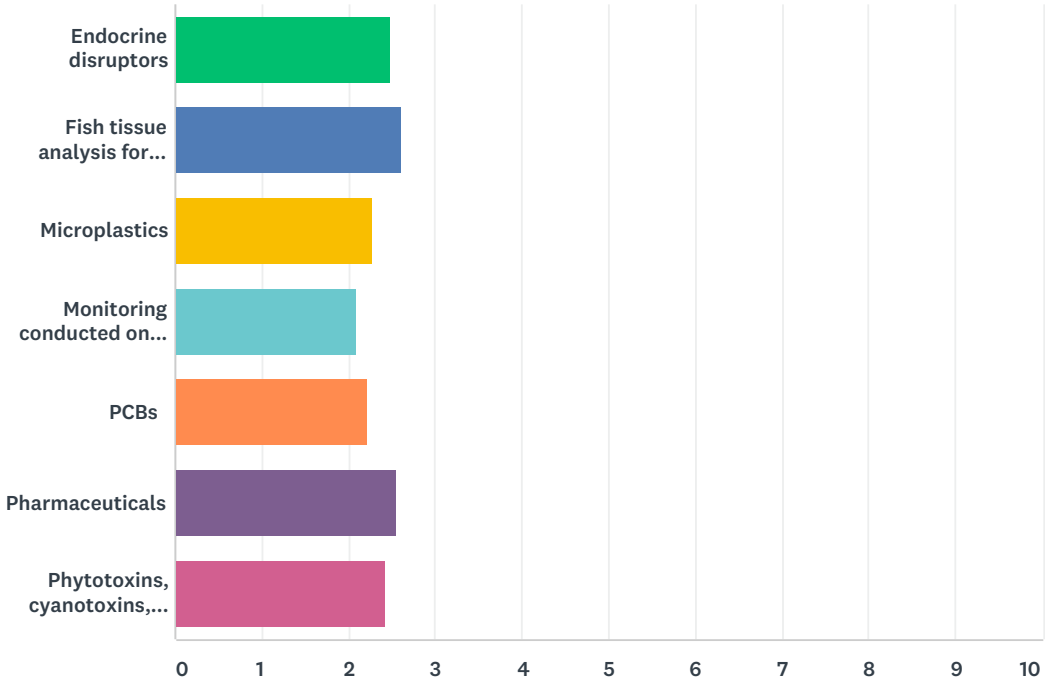
Answered: 40 Skipped: 15



	1	2	3	4	5	6	7	TOTAL	SCORE
Endocrine disruptors	10.81% 4	21.62% 8	18.92% 7	24.32% 9	10.81% 4	8.11% 3	5.41% 2	37	4.51
Fish tissue analysis for bioaccumulating compounds	16.67% 6	33.33% 12	16.67% 6	5.56% 2	13.89% 5	11.11% 4	2.78% 1	36	4.89
Microplastics	15.79% 6	15.79% 6	10.53% 4	18.42% 7	13.16% 5	10.53% 4	15.79% 6	38	4.08
Monitoring conducted on the center channel replicated for the banks and at additional depths	21.05% 8	2.63% 1	7.89% 3	0.00% 0	13.16% 5	7.89% 3	47.37% 18	38	3.05
PCBs	10.81% 4	5.41% 2	16.22% 6	13.51% 5	10.81% 4	32.43% 12	10.81% 4	37	3.51
Pharmaceuticals	11.11% 4	11.11% 4	25.00% 9	25.00% 9	13.89% 5	11.11% 4	2.78% 1	36	4.36
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	17.50% 7	15.00% 6	7.50% 3	12.50% 5	22.50% 9	15.00% 6	10.00% 4	40	4.08

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Answered: 40 Skipped: 15



	LOW PRIORITY	MODERATE PRIORITY	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
Endocrine disruptors	2.50% 1	47.50% 19	50.00% 20	40	2.48
Fish tissue analysis for bioaccumulating compounds	5.13% 2	28.21% 11	66.67% 26	39	2.62
Microplastics	20.00% 8	32.50% 13	47.50% 19	40	2.27
Monitoring conducted on the center channel replicated for the banks and at additional depths	28.21% 11	33.33% 13	38.46% 15	39	2.10
PCBs	12.82% 5	53.85% 21	33.33% 13	39	2.21
Pharmaceuticals	2.56% 1	38.46% 15	58.97% 23	39	2.56
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	10.00% 4	37.50% 15	52.50% 21	40	2.42

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

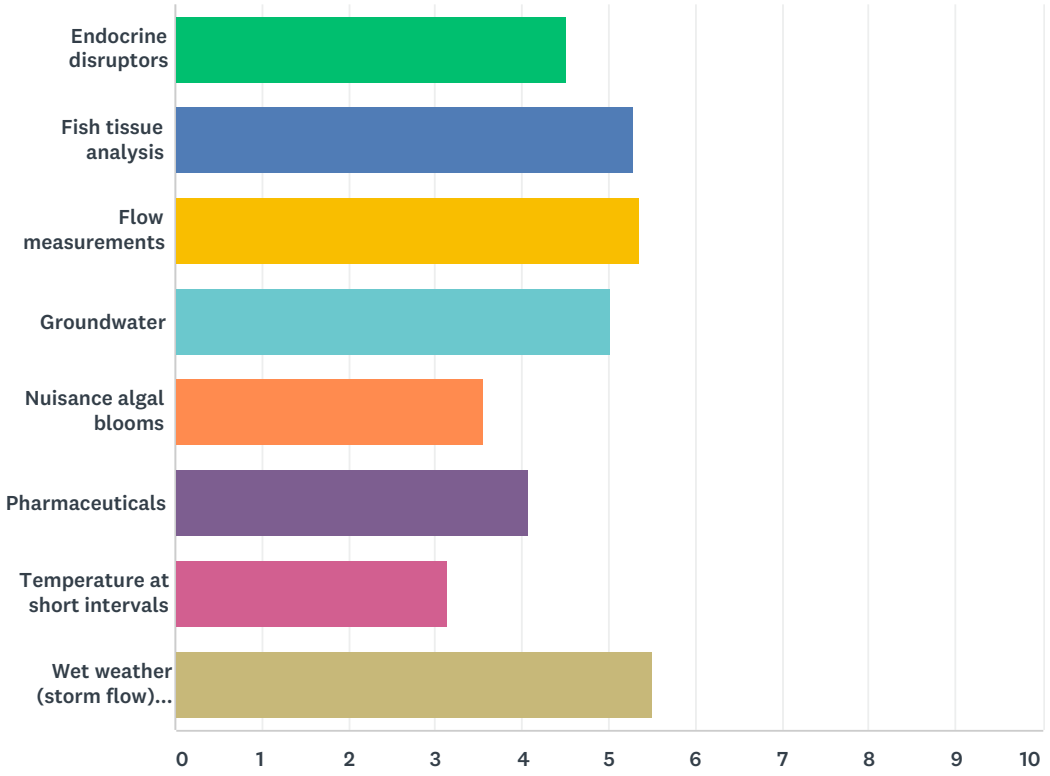
Answered: 14 Skipped: 41

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Answered: 14 Skipped: 41

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

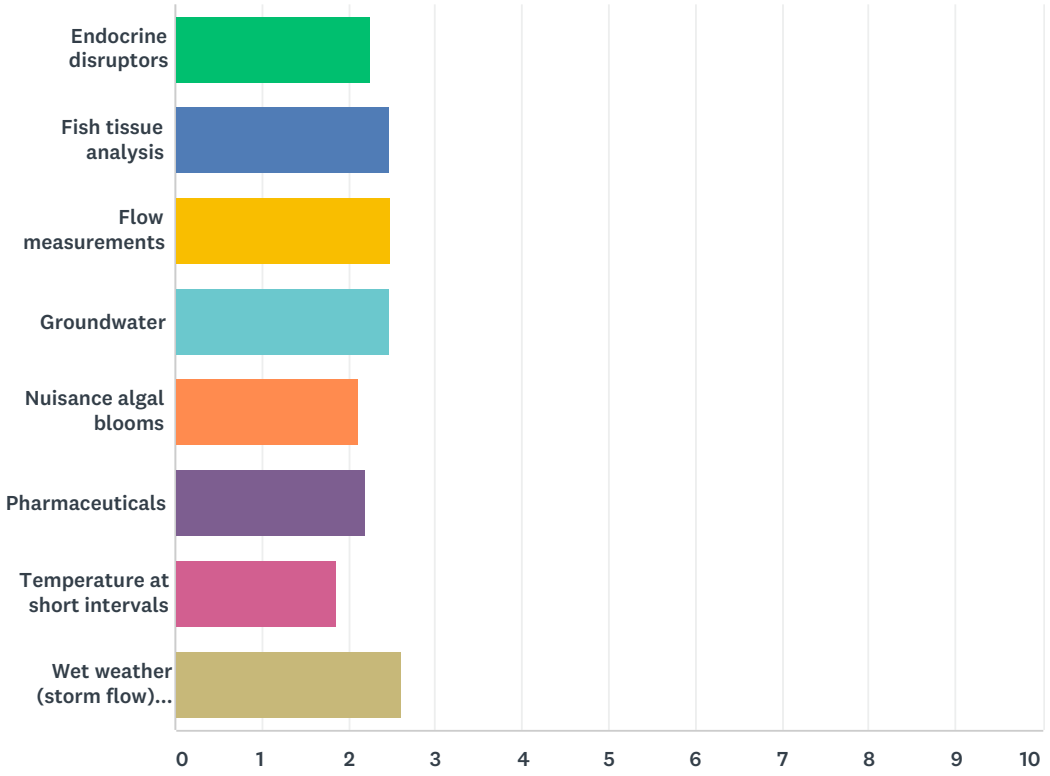
Answered: 37 Skipped: 18



	1	2	3	4	5	6	7	8	TOTAL	SCORE
Endocrine disruptors	17.14% 6	5.71% 2	14.29% 5	17.14% 6	8.57% 3	11.43% 4	8.57% 3	17.14% 6	35	4.51
Fish tissue analysis	14.29% 5	22.86% 8	17.14% 6	5.71% 2	17.14% 6	11.43% 4	8.57% 3	2.86% 1	35	5.29
Flow measurements	19.44% 7	8.33% 3	22.22% 8	16.67% 6	16.67% 6	8.33% 3	5.56% 2	2.78% 1	36	5.36
Groundwater	11.43% 4	17.14% 6	14.29% 5	17.14% 6	20.00% 7	5.71% 2	8.57% 3	5.71% 2	35	5.03
Nuisance algal blooms	11.11% 4	2.78% 1	2.78% 1	13.89% 5	8.33% 3	19.44% 7	27.78% 10	13.89% 5	36	3.56
Pharmaceuticals	8.11% 3	2.70% 1	13.51% 5	16.22% 6	16.22% 6	18.92% 7	16.22% 6	8.11% 3	37	4.08
Temperature at short intervals	2.70% 1	10.81% 4	8.11% 3	5.41% 2	8.11% 3	13.51% 5	16.22% 6	35.14% 13	37	3.14
Wet weather (storm flow) monitoring	18.92% 7	32.43% 12	10.81% 4	8.11% 3	5.41% 2	8.11% 3	5.41% 2	10.81% 4	37	5.51

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Answered: 36 Skipped: 19



	LOW PRIORITY	MODERATE PRIORITY	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
Endocrine disruptors	22.22% 8	30.56% 11	47.22% 17	36	2.25
Fish tissue analysis	5.56% 2	41.67% 15	52.78% 19	36	2.47
Flow measurements	2.78% 1	44.44% 16	52.78% 19	36	2.50
Groundwater	11.43% 4	31.43% 11	57.14% 20	35	2.46
Nuisance algal blooms	22.22% 8	44.44% 16	33.33% 12	36	2.11
Pharmaceuticals	20.00% 7	40.00% 14	40.00% 14	35	2.20
Temperature at short intervals	27.78% 10	58.33% 21	13.89% 5	36	1.86
Wet weather (storm flow) monitoring	0.00% 0	38.89% 14	61.11% 22	36	2.61

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

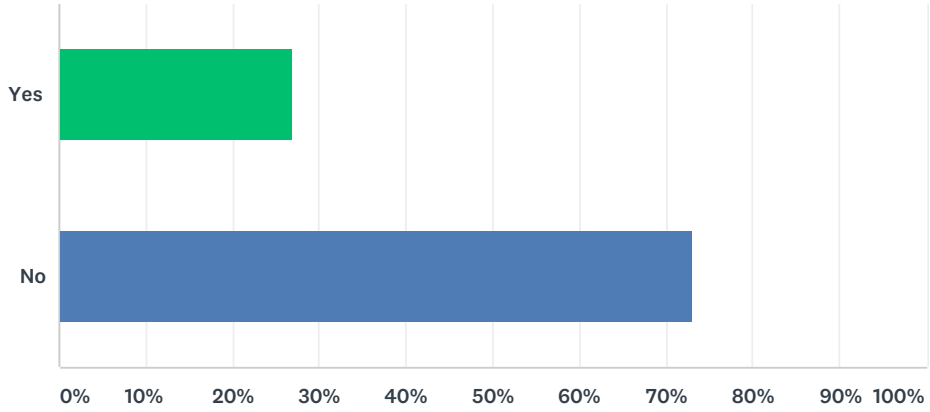
Answered: 11 Skipped: 44

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Answered: 11 Skipped: 44

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Answered: 37 Skipped: 18



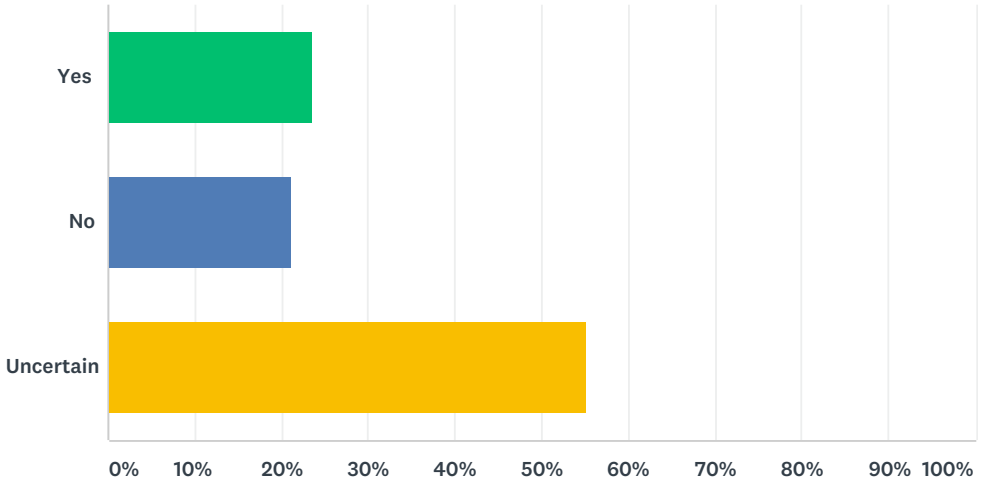
ANSWER CHOICES	RESPONSES	
Yes	27.03%	10
No	72.97%	27
TOTAL		37

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Answered: 9 Skipped: 46

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Answered: 38 Skipped: 17



ANSWER CHOICES	RESPONSES	
Yes	23.68%	9
No	21.05%	8
Uncertain	55.26%	21
TOTAL		38

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Answered: 9 Skipped: 46

APPENDIX B

SURVEYMONKEY COMPILATION OF ALL SURVEY RESPONSES

#1

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 11:54:28 AM
Last Modified:	Thursday, November 29, 2018 12:02:01 PM
Time Spent:	00:07:33
IP Address:	216.228.143.180

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Dewayne Fox**
Organization	**Delaware State University**
Email Address	**dfox@desu.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,

Coastal ecology/function,

Fish,

Freshwater resources and organisms ,

Invasive species

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**4**
Invasive species	**1**
Marine mammals and sea turtles	**3**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Low Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Atlantic and Shortnose Sturgeon- currently neither species is being monitored by the States of PA an NJ. In the case of Shortnose nobody in the estuary is looking at them. In the case of Atlantic Sturgeon the State of DE has a juvenile monitoring project but that is limited to scope and scale.

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Yes- upper watershed above CD Canal

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**7**
Cumulative Impacts	**2**
Dredging data	**1**
Forest health	**4**
Sediment stratification	**5**
Submerged habitat	**3**
Transition zone monitoring	**6**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**1**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**5**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**3**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**6**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Low Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**1**
Fish tissue analysis	**2**
Flow measurements	**3**
Groundwater	**5**
Nuisance algal blooms	**7**
Pharmaceuticals	**4**
Temperature at short intervals	**6**
Wet weather (storm flow) monitoring	**8**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

No

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

If asking for a dollar amount difficult to come up with at this point but on the order of $200K/year to "monitor".

#2

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 12:29:47 PM
Last Modified:	Thursday, November 29, 2018 12:39:33 PM
Time Spent:	00:09:46
IP Address:	167.21.41.14

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**David Wolanski**
Organization	**Delaware DNREC**
Email Address	**david.wolanski@state.de.us**

Q2 Select your area(s) of expertise (please select all that apply)

Data management,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Low Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

not at this time

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

hard to say without GIS coverage

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

not really quaiified to answer

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

not really qualified to answer

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**6**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**7**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**4**
Pharmaceuticals	**5**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**3**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Low Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

without GIS... hard to say

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**8**
Fish tissue analysis	**3**
Flow measurements	**1**
Groundwater	**7**
Nuisance algal blooms	**6**
Pharmaceuticals	**5**
Temperature at short intervals	**4**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**Low Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Low Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

without GIS... no way to say

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#3

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 1:15:24 PM
Last Modified:	Thursday, November 29, 2018 1:27:42 PM
Time Spent:	00:12:18
IP Address:	216.99.180.227

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kimberly Long**
Organization	**Exelon Corporation**
Email Address	**kimberly.long@exeloncorp.com**

Q2 Select your area(s) of expertise (please select all that apply)

Coastal ecology/function,
Data management,
Ecosystem services,
Fish,
Forests,
Freshwater resources and organisms ,
Invasive species,
Tidal/nontidal wetlands ,
Urban/regional planning or land use,
Water quality,
Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

NA

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

NA

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**2**
Cumulative Impacts	**4**
Dredging data	**5**
Forest health	**1**
Sediment stratification	**7**
Submerged habitat	**3**
Transition zone monitoring	**6**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**High Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

NA

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

NA

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Fish tissue analysis for bioaccumulating compounds	**1**
Microplastics	**4**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**6**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

NA

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

NA

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**2**
Fish tissue analysis	**1**
Flow measurements	**3**
Groundwater	**4**
Nuisance algal blooms	**6**
Pharmaceuticals	**5**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**7**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

NA

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

NA

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment? **Yes**

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Center in the Park - Philadelphia, volunteer WQ monitoring group; other similar watershed organizations

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary? **Yes**

Q22 If you answered "no" for Question 21, what level of funding is needed for which program? **Respondent skipped this question**

#4

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 2:06:49 PM
Last Modified:	Thursday, November 29, 2018 2:20:56 PM
Time Spent:	00:14:06
IP Address:	204.46.141.164

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Rachael Graham**
Organization	**US EPA Region 2**
Email Address	**graham.rachael@epa.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,

Water quality,

Other (please specify):

Superfund, sampling

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**1**
Microplastics	**2**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**6**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Respondent skipped this question

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#5

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 2:02:02 PM
Last Modified:	Thursday, November 29, 2018 2:24:13 PM
Time Spent:	00:22:11
IP Address:	204.46.134.119

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Ralph Spagnolo**
Organization	**USEPA**
Email Address	**spagnolo.ralph@epa.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,

Coastal ecology/function

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**1**
Marine mammals and sea turtles	**2**
Population-level monitoring	**4**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**High Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

shallow water bentic botton-subtidal non-vegetated

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

no

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**7**
Cumulative Impacts	**3**
Dredging data	**4**
Forest health	**6**
Sediment stratification	**5**
Submerged habitat	**1**
Transition zone monitoring	**2**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Sediment stratification	**High Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

shallow unvergetated bottm

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

no

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**1**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**3**
PCBs	**6**
Pharmaceuticals	**5**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**7**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

none

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**3**
Fish tissue analysis	**6**
Flow measurements	**5**
Groundwater	**4**
Nuisance algal blooms	**7**
Pharmaceuticals	**8**
Temperature at short intervals	**1**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**Moderate Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**High Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

none

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#6

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 2:59:28 PM
Last Modified:	Thursday, November 29, 2018 3:09:32 PM
Time Spent:	00:10:04
IP Address:	128.118.175.206

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Raymond Najjar**
Organization	**The Pennsylvania State University**
Email Address	**rgn1@psu.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Modeling,

Tidal/nontidal wetlands ,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#7

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 3:27:57 PM
Last Modified:	Thursday, November 29, 2018 3:37:03 PM
Time Spent:	00:09:06
IP Address:	74.92.68.6

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Ryan Rebozo**
Organization	**Pinelands Preservation Alliance**
Email Address	**ryan@pinelandsalliance.org**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Coastal ecology/function,

Forests,

Invasive species

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**7**
Cumulative Impacts	**1**
Dredging data	**5**
Forest health	**4**
Sediment stratification	**2**
Submerged habitat	**3**
Transition zone monitoring	**6**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**High Priority**
Sediment stratification	**High Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Fish tissue analysis for bioaccumulating compounds	**1**
Microplastics	**3**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**5**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**6**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**6**
Fish tissue analysis	**1**
Flow measurements	**5**
Groundwater	**2**
Nuisance algal blooms	**7**
Pharmaceuticals	**3**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**4**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#8

INCOMPLETE

Collector: Web Link 1 (Web Link)
Started: Thursday, November 29, 2018 3:59:41 PM
Last Modified: Thursday, November 29, 2018 4:00:24 PM
Time Spent: 00:00:42
IP Address: 144.118.96.214

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Stefanie Kroll**
Organization	**ANS**
Email Address	**sak345@drexel.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Freshwater resources and organisms ,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#9

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 3:58:11 PM
Last Modified:	Thursday, November 29, 2018 4:33:59 PM
Time Spent:	00:35:48
IP Address:	50.248.133.13

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Laura Crane**
Organization	**The Nature Conservancy, NJ**
Email Address	**laura.moritzen@tnc.org**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,
Coastal ecology/function,
Shellfish and benthic resources ,
Tidal/nontidal wetlands

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**4**
Cumulative Impacts	**5**
Dredging data	**1**
Forest health	**7**
Sediment stratification	**2**
Submerged habitat	**6**
Transition zone monitoring	**3**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Sediment stratification	**High Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**7**
Fish tissue analysis for bioaccumulating compounds	**5**
Microplastics	**4**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**6**
PCBs	**3**
Pharmaceuticals	**2**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**1**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**4**
Fish tissue analysis	**2**
Flow measurements	**6**
Groundwater	**3**
Nuisance algal blooms	**7**
Pharmaceuticals	**1**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**5**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#10

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 4:22:27 PM
Last Modified:	Thursday, November 29, 2018 4:38:37 PM
Time Spent:	00:16:09
IP Address:	216.228.143.180

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Gulnihal Ozbay**
Organization	**Delaware State University**
Email Address	**gozbay@desu.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,
Citizen science,
Coastal ecology/function,
Ecosystem services,
Fish,
Sediment or soils ,
Shellfish and benthic resources ,
Water quality,
Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**3**
Marine mammals and sea turtles	**1**
Population-level monitoring	**4**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**High Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Commercial fish like salmon and tuna

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

urban waters

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**7**
Cumulative Impacts	**4**
Dredging data	**3**
Forest health	**2**
Sediment stratification	**5**
Submerged habitat	**1**
Transition zone monitoring	**6**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**High Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Phragmites invasion and horseshoe crabs

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

tributaries of estuaries and urban brackish water setting

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**6**
Fish tissue analysis for bioaccumulating compounds	**5**
Microplastics	**4**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**3**
Pharmaceuticals	**2**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**1**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

new/invasive plants merging

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

urban settings and transitional areas

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**5**
Fish tissue analysis	**2**
Flow measurements	**4**
Groundwater	**6**
Nuisance algal blooms	**1**
Pharmaceuticals	**3**
Temperature at short intervals	**7**
Wet weather (storm flow) monitoring	**8**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Sedimentation and particle transport

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

little creeks and where freshwater mixes with salt water

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment? **Yes**

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Nature Conservancy

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary? **No**

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Need continues monitoring for HABs & nutrients

#11

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 4:51:42 PM
Last Modified:	Thursday, November 29, 2018 5:23:35 PM
Time Spent:	00:31:53
IP Address:	50.246.115.161

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Drew Budelis**
Organization	**Versar**
Email Address	**dbudelis@versar.com**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Brackish or marine resources and organisms ,

Coastal ecology/function,

Data management,

Ecosystem services,

Fish,

Freshwater resources and organisms ,

Invasive species,

Modeling,

Sediment or soils ,

Shellfish and benthic resources ,

Water quality,

Water quantity,

Other (please specify):

The expertise noted above represent those of the team that I manage. I don't necessarily have those expertise as an individual.

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**4**
Invasive species	**1**
Marine mammals and sea turtles	**2**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

American eel,

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Non-tidal / Tidal Interface

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**4**
Cumulative Impacts	**1**
Dredging data	**5**
Forest health	**7**
Sediment stratification	**6**
Submerged habitat	**3**
Transition zone monitoring	**2**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**Low Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Invasive species

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**4**
Fish tissue analysis	**1**
Flow measurements	**3**
Groundwater	**7**
Nuisance algal blooms	**6**
Pharmaceuticals	**8**
Temperature at short intervals	**5**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#12

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Thursday, November 29, 2018 8:36:23 PM
Last Modified:	Thursday, November 29, 2018 8:53:04 PM
Time Spent:	00:16:40
IP Address:	71.175.10.220

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Richard Hunt Mcnutt McNutt**
Organization	**President**
Email Address	**tidewatersgp@gmail.com**

Q2 Select your area(s) of expertise (please select all that apply)	**Beaches,** **Brackish or marine resources and organisms ,** **Citizen science,** **Coastal ecology/function,** **Community engagement,** **Data management,** **Ecosystem services,** **Fish,** **Forests,** **Freshwater resources and organisms ,** **Invasive species,** **Modeling,** **Non-aquatic wildlife,** **Policy and/or funding,** **Sediment or soils ,** **Shellfish and benthic resources ,** **Tidal/nontidal wetlands ,** **Urban/regional planning or land use,** **Water quality,** **Water quantity,** Other (please specify): All earth water is connected

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**High Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Anti degradation water quality - Spectial Protection waters. SPW

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Delaware River tidewaters - Trenton to the ocean

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Transition zone monitoring	**1**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**High Priority**
Sediment stratification	**High Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Non degradation water policy by law

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Trenton to the ocean

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**1**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Anti degradation water policy implemented by federal law

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Trento to the ocean forever by law

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**1**
Fish tissue analysis	**2**
Flow measurements	**4**
Groundwater	**3**
Nuisance algal blooms	**5**
Pharmaceuticals	**6**
Temperature at short intervals	**7**
Wet weather (storm flow) monitoring	**8**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**High Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Anti degradation water policy federally implemented

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Trenton to the ocean

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#13

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Friday, November 30, 2018 7:52:23 AM
Last Modified:	Friday, November 30, 2018 8:02:47 AM
Time Spent:	00:10:24
IP Address:	167.21.41.12

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Todd Keyser**
Organization	**DE DNREC DWHS**
Email Address	**todd.keyser@state.de.us**

Q2 Select your area(s) of expertise (please select all that apply)

Sediment or soils ,

Water quality,

Other (please specify):

Toxics How did this not make the list?

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**2**
Dredging data	**1**
Forest health	**7**
Sediment stratification	**4**
Submerged habitat	**5**
Transition zone monitoring	**3**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**3**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**5**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**1**
Pharmaceuticals	**6**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**4**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**High Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

The draft monitoring inventory did not open for this survey

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**3**
Fish tissue analysis	**1**
Flow measurements	**5**
Groundwater	**2**
Nuisance algal blooms	**7**
Pharmaceuticals	**4**
Temperature at short intervals	**6**
Wet weather (storm flow) monitoring	**8**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Respondent skipped this question

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#14

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Friday, November 30, 2018 8:28:02 AM
Last Modified:	Friday, November 30, 2018 8:30:29 AM
Time Spent:	00:02:26
IP Address:	71.226.224.19

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Namsoo Suk**
Organization	**Delaware River Basin Commission**
Email Address	**namsoo.suk@drbc.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Modeling,

Water quality,

Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#15

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Friday, November 30, 2018 8:25:36 AM
Last Modified: Friday, November 30, 2018 8:45:42 AM
Time Spent: 00:20:06
IP Address: 167.21.41.14

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Erin Dorset**
Organization	**DNREC**
Email Address	**erin.dorset@state.de.us**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,
Coastal ecology/function,
Ecosystem services,
Tidal/nontidal wetlands

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**2**
Cumulative Impacts	**1**
Dredging data	**6**
Forest health	**4**
Sediment stratification	**7**
Submerged habitat	**5**
Transition zone monitoring	**3**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**High Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**1**
Fish tissue analysis for bioaccumulating compounds	**3**
Microplastics	**5**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**4**
Pharmaceuticals	**6**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**2**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**High Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**1**
Fish tissue analysis	**3**
Flow measurements	**4**
Groundwater	**5**
Nuisance algal blooms	**6**
Pharmaceuticals	**7**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Yes**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#16

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Friday, November 30, 2018 10:05:08 AM
Last Modified: Friday, November 30, 2018 10:20:30 AM
Time Spent: 00:15:22
IP Address: 71.225.136.232

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Jim Fries**
Organization	**Riverfront North Partnership**
Email Address	**jim@riverfrontnorth.org**

Q2 Select your area(s) of expertise (please select all that apply)

Invasive species,
Tidal/nontidal wetlands ,
Urban/regional planning or land use

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Non-marine mammals that utilize riparian areas

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

City of Philadelphia Delaware River waterfront

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**3**
Cumulative Impacts	**1**
Dredging data	**7**
Forest health	**2**
Sediment stratification	**5**
Submerged habitat	**4**
Transition zone monitoring	**6**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**High Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Delaware River waterfront Philadelphia

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**3**
Microplastics	**5**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**6**
Pharmaceuticals	**7**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**2**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Delaware River shoreline in Philadelphia

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**8**
Fish tissue analysis	**7**
Flow measurements	**1**
Groundwater	**2**
Nuisance algal blooms	**3**
Pharmaceuticals	**4**
Temperature at short intervals	**5**
Wet weather (storm flow) monitoring	**6**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Poquessing Creek, Tacony/Frankford Creek, Pennypack Creek, Buried creeks in Philadelphia

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Yes

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Youth Volunteer Corps

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#17

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Friday, November 30, 2018 10:58:43 AM
Last Modified:	Friday, November 30, 2018 11:18:06 AM
Time Spent:	00:19:22
IP Address:	128.175.90.60

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Thomas E. McKenna**
Organization	**University of Delaware**
Email Address	**mckennat@udel.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Freshwater resources and organisms ,
Sediment or soils ,
Tidal/nontidal wetlands ,
Water quality,
Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

subestuaries of Delaware Bay

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**5**
Cumulative Impacts	**4**
Dredging data	**3**
Forest health	**7**
Sediment stratification	**6**
Submerged habitat	**1**
Transition zone monitoring	**2**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

subestuaries of Delaware Bay

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**5**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**4**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**6**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**7**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Low Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Low Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

subestuaries of Delaware Bay

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**6**
Fish tissue analysis	**3**
Flow measurements	**7**
Groundwater	**1**
Nuisance algal blooms	**8**
Pharmaceuticals	**5**
Temperature at short intervals	**2**
Wet weather (storm flow) monitoring	**4**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Low Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**High Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

subestuaries of Delaware Bay

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**Yes**

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Delaware Nature Society; Nature Conservancy

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

uncertain that EPA/DNREC funds will be available over ten years for our long-term groundwater-level monitoring planbut the Delaware Water Supply Coordinating Council has been very helpful in making our case of importance. Our streamflow discharge and tide gage cooperative program with USGS and others has been stable recently but through the years there have been budget cuts that created holes in long-term data sets. Our earthquake monitoring program funding is stable but need to create partnership with other entities beyond DEMA. Anticipate work with UD CEMA and DEOS (meterological stations, coastal flood monitoring system to continue to be supported over next 10 yrs.

#18

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Friday, November 30, 2018 2:17:39 PM
Last Modified:	Friday, November 30, 2018 2:31:46 PM
Time Spent:	00:14:06
IP Address:	160.93.63.1

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**John Yagecic**
Organization	**Delaware River Basin Commission**
Email Address	**John.Yagecic@drbc.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Data management,
Modeling,
Water quality,
Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**1**
Marine mammals and sea turtles	**3**
Population-level monitoring	**4**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Low Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

N/A

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

N/A

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**4**
Dredging data	**2**
Forest health	**3**
Sediment stratification	**7**
Submerged habitat	**1**
Transition zone monitoring	**5**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Low Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

N/A

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

N/A

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Microplastics	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**1**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Microplastics	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Yes

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

William Penn Cluster groups

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#19

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Friday, November 30, 2018 5:08:07 PM
Last Modified:	Friday, November 30, 2018 5:28:22 PM
Time Spent:	00:20:15
IP Address:	68.83.107.234

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kuo-Liang Lai**
Organization	**EPA Region 3**
Email Address	**lai.kuo-liang@epa.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Citizen science,

Coastal ecology/function,

Data management,

Ecosystem services,

Freshwater resources and organisms ,

Modeling,

Policy and/or funding,

Sediment or soils ,

Shellfish and benthic resources ,

Urban/regional planning or land use,

Water quality,

Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**4**
Marine mammals and sea turtles	**3**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Low Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**1**
Dredging data	**2**
Forest health	**7**
Sediment stratification	**4**
Submerged habitat	**3**
Transition zone monitoring	**5**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**Low Priority**
Sediment stratification	**High Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**3**
Microplastics	**7**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**2**
PCBs	**6**
Pharmaceuticals	**5**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**1**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**7**
Fish tissue analysis	**6**
Flow measurements	**1**
Groundwater	**4**
Nuisance algal blooms	**5**
Pharmaceuticals	**8**
Temperature at short intervals	**3**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Low Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#20

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 03, 2018 8:52:37 AM
Last Modified:	Monday, December 03, 2018 9:13:54 AM
Time Spent:	00:21:17
IP Address:	164.159.59.2

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Gregory Breese**
Organization	**US Fish and Wildlife Service**
Email Address	**gregory_breese@fws.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Brackish or marine resources and organisms ,

Citizen science,

Coastal ecology/function,

Forests,

Freshwater resources and organisms ,

Invasive species,

Non-aquatic wildlife,

Shellfish and benthic resources ,

Tidal/nontidal wetlands ,

Urban/regional planning or land use

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Yes

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Yes

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**7**
Cumulative Impacts	**1**
Dredging data	**6**
Forest health	**2**
Sediment stratification	**5**
Submerged habitat	**3**
Transition zone monitoring	**4**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**High Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Low Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Yes

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Yes

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**5**
Microplastics	**2**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**3**
PCBs	**6**
Pharmaceuticals	**1**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**7**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Yes

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Yes

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**6**
Fish tissue analysis	**5**
Flow measurements	**1**
Groundwater	**4**
Nuisance algal blooms	**7**
Pharmaceuticals	**3**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Yes

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Yes

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment? **Yes**

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Horseshoe Crab Bay-wide Monitoring

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary? **Uncertain**

Q22 If you answered "no" for Question 21, what level of funding is needed for which program? **Respondent skipped this question**

#21

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 03, 2018 10:21:42 AM
Last Modified:	Monday, December 03, 2018 10:23:40 AM
Time Spent:	00:01:58
IP Address:	8.20.65.4

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Nicholas Lylo**
Organization	**PA DCNR Bureau of Forestry**
Email Address	**nlylo@pa.gov**

Q2 Select your area(s) of expertise (please select all that apply) **Forests**

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**1**
Marine mammals and sea turtles	**2**
Population-level monitoring	**4**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Low Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Low Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**Respondent skipped this question**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#22

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 03, 2018 1:27:47 PM
Last Modified:	Monday, December 03, 2018 1:31:44 PM
Time Spent:	00:03:56
IP Address:	75.97.126.106

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**ryan neuman**
Organization	**Tookany Tacony Frankford Watershed Partnership**
Email Address	**ryan@ttfwatershed.org**

Q2 Select your area(s) of expertise (please select all that apply)

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Respondent skipped this question

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#23

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 03, 2018 2:13:28 PM
Last Modified:	Monday, December 03, 2018 2:28:05 PM
Time Spent:	00:14:36
IP Address:	128.175.126.111

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Anastasia E. M. Chirnside**
Organization	**University of DE**
Email Address	**aemc@udel.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Ecosystem services,
Sediment or soils ,
Tidal/nontidal wetlands ,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**5**
Cumulative Impacts	**1**
Dredging data	**3**
Forest health	**6**
Sediment stratification	**7**
Submerged habitat	**4**
Transition zone monitoring	**2**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**6**
Microplastics	**2**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**7**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**Low Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Low Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**7**
Fish tissue analysis	**8**
Flow measurements	**2**
Groundwater	**3**
Nuisance algal blooms	**4**
Pharmaceuticals	**5**
Temperature at short intervals	**6**
Wet weather (storm flow) monitoring	**1**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#24

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 03, 2018 3:53:47 PM
Last Modified:	Monday, December 03, 2018 4:02:56 PM
Time Spent:	00:09:09
IP Address:	167.21.41.14

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Alison Rogerson**
Organization	**DNREC**
Email Address	**alison.rogerson@state.de.us**

Q2 Select your area(s) of expertise (please select all that apply)

Tidal/nontidal wetlands

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**1**
Dredging data	**3**
Forest health	**5**
Sediment stratification	**7**
Submerged habitat	**4**
Transition zone monitoring	**2**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**3**
Fish tissue analysis for bioaccumulating compounds	**4**
Microplastics	**1**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**5**
Pharmaceuticals	**2**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**6**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

$

#25

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 03, 2018 3:58:25 PM
Last Modified:	Monday, December 03, 2018 4:09:13 PM
Time Spent:	00:10:47
IP Address:	96.93.49.4

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Lisa Ferguson**
Organization	**The Wetlands Institute**
Email Address	**lferguson@wetlandsinstitute.org**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Brackish or marine resources and organisms ,

Citizen science,

Coastal ecology/function,

Community engagement,

Non-aquatic wildlife,

Tidal/nontidal wetlands ,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Respondent skipped this question

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#26

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Wednesday, December 05, 2018 2:56:41 PM
Last Modified:	Wednesday, December 05, 2018 3:10:51 PM
Time Spent:	00:14:09
IP Address:	153.104.209.214

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Nathaniel Weston**
Organization	**Villanova University**
Email Address	**nathaniel.weston@villanova.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Coastal ecology/function,

Ecosystem services,

Sediment or soils ,

Tidal/nontidal wetlands ,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**1**
Dredging data	**5**
Forest health	**2**
Sediment stratification	**7**
Submerged habitat	**3**
Transition zone monitoring	**4**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**3**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**4**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**5**
Pharmaceuticals	**1**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**6**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**5**
Fish tissue analysis	**4**
Flow measurements	**6**
Groundwater	**3**
Nuisance algal blooms	**7**
Pharmaceuticals	**2**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**1**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#27

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Wednesday, December 05, 2018 3:54:18 PM
Last Modified:	Wednesday, December 05, 2018 4:18:20 PM
Time Spent:	00:24:01
IP Address:	72.44.165.18

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kaitie Sniffen**
Organization	**Seaport Museum**
Email Address	**ksniffen@phillyseaport.org**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Community engagement,
Ecosystem services,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

hard to say without knowing exactly whats covered now

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**1**
Dredging data	**4**
Forest health	**3**
Sediment stratification	**5**
Submerged habitat	**2**
Transition zone monitoring	**7**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Low Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**3**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**1**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**6**
PCBs	**7**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**3**
Fish tissue analysis	**2**
Flow measurements	**4**
Groundwater	**5**
Nuisance algal blooms	**8**
Pharmaceuticals	**6**
Temperature at short intervals	**7**
Wet weather (storm flow) monitoring	**1**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#28

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 7:52:07 AM
Last Modified:	Monday, December 10, 2018 8:09:34 AM
Time Spent:	00:17:27
IP Address:	12.200.34.76

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Barnett Rattner**
Organization	**USGS, DOI**
Email Address	**brattner@usgs.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Other (please specify):

wildlife ecotoxicology

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**4**
Invasive species	**3**
Marine mammals and sea turtles	**1**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**High Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

None

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

waterbirds

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**5**
Cumulative Impacts	**4**
Dredging data	**3**
Forest health	**2**
Sediment stratification	**6**
Submerged habitat	**1**
Transition zone monitoring	**7**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**Moderate Priority**
Forest health	**High Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

None

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

None

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**3**
Fish tissue analysis for bioaccumulating compounds	**5**
Microplastics	**6**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**4**
Pharmaceuticals	**1**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**2**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

None

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

None

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**2**
Fish tissue analysis	**3**
Flow measurements	**6**
Groundwater	**5**
Nuisance algal blooms	**4**
Pharmaceuticals	**1**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**7**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

None

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

None

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**Yes**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**No**

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

$150,000 per sampling year

#29

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 12:38:03 PM
Last Modified:	Monday, December 10, 2018 12:45:13 PM
Time Spent:	00:07:10
IP Address:	160.93.0.202

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Cari Wild**
Organization	**NJ Natural Lands Trust**
Email Address	**cari.wild@dep.nj.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Policy and/or funding,

Other (please specify):

conservation of habitat for threatened and endangered species

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**High Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**7**
Cumulative Impacts	**1**
Dredging data	**5**
Forest health	**6**
Sediment stratification	**4**
Submerged habitat	**3**
Transition zone monitoring	**2**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**Low Priority**
Sediment stratification	**High Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Fish tissue analysis for bioaccumulating compounds	**4**
Microplastics	**1**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**6**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**1**
Fish tissue analysis	**2**
Flow measurements	**8**
Groundwater	**5**
Nuisance algal blooms	**4**
Pharmaceuticals	**3**
Temperature at short intervals	**7**
Wet weather (storm flow) monitoring	**6**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#30

INCOMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, December 10, 2018 12:54:57 PM
Last Modified: Monday, December 10, 2018 1:00:08 PM
Time Spent: 00:05:11
IP Address: 160.93.0.208

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Biswarup Guha**
Organization	**NJDEP**
Email Address	**biswarup.guha@dep.nj.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Data management,

Freshwater resources and organisms ,

Modeling,

Policy and/or funding,

Shellfish and benthic resources ,

Water quality,

Other (please specify):

Surface Water Quality Standards

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**Respondent skipped this question**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#31

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 1:13:32 PM
Last Modified:	Monday, December 10, 2018 1:46:42 PM
Time Spent:	00:33:10
IP Address:	204.46.140.104

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kathleen Foley**
Organization	**USEPA Region 2**
Email Address	**savino.kathleen@epa.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Community engagement,

Water quality,

Other (please specify):

Data Quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**4**
Cumulative Impacts	**7**
Dredging data	**2**
Forest health	**5**
Sediment stratification	**6**
Submerged habitat	**1**
Transition zone monitoring	**3**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**Low Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Fish tissue analysis for bioaccumulating compounds	**3**
Microplastics	**7**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**5**
PCBs	**6**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**1**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Low Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**4**
Fish tissue analysis	**7**
Flow measurements	**3**
Groundwater	**5**
Nuisance algal blooms	**1**
Pharmaceuticals	**6**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Yes**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#32

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 2:39:33 PM
Last Modified:	Monday, December 10, 2018 2:49:11 PM
Time Spent:	00:09:37
IP Address:	129.25.251.100

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**David Velinsky**
Organization	**Academy of Natural Sciences of Drexel Univesity**
Email Address	**djv23@drexel.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Coastal ecology/function,

Ecosystem services,

Sediment or soils ,

Tidal/nontidal wetlands ,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

tidal freshwater areas

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**2**
Dredging data	**1**
Forest health	**5**
Sediment stratification	**7**
Submerged habitat	**4**
Transition zone monitoring	**3**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

tidal Freshwater areas

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**3**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**1**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**5**
PCBs	**7**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**6**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**4**
Fish tissue analysis	**5**
Flow measurements	**3**
Groundwater	**1**
Nuisance algal blooms	**7**
Pharmaceuticals	**6**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

approimately $100k per year

#33

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 2:41:18 PM
Last Modified:	Monday, December 10, 2018 2:56:49 PM
Time Spent:	00:15:30
IP Address:	50.199.86.61

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Meghan Rogalus**
Organization	**Bucks County Conservation District**
Email Address	**mrogalus@bucksccd.org**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Data management,
Freshwater resources and organisms ,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**1**
Marine mammals and sea turtles	**2**
Population-level monitoring	**4**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Areas outside of DRWI clusters, e.g., Tohickon Creek, Neshaminy Creek and other Delaware direct basins

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**3**
Cumulative Impacts	**2**
Dredging data	**7**
Forest health	**4**
Sediment stratification	**6**
Submerged habitat	**5**
Transition zone monitoring	**1**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**Low Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**1**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**6**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**4**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**3**
Fish tissue analysis	**4**
Flow measurements	**2**
Groundwater	**5**
Nuisance algal blooms	**8**
Pharmaceuticals	**6**
Temperature at short intervals	**7**
Wet weather (storm flow) monitoring	**1**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Yes

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Primrose Creek Watershed Association, Aquetong Watershed Association, Cooks Creek Watershed Association, Carversville Farm Foundation (in Paunacussing Creek watershed)

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#34

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 3:23:12 PM
Last Modified:	Monday, December 10, 2018 3:24:10 PM
Time Spent:	00:00:58
IP Address:	69.242.37.154

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Ryan Neuman**
Organization	**Tookany/Tacony-Frankford Watershed Partnership**
Email Address	**ryan@ttfwatershed.org**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Respondent skipped this question

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#35

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 3:19:33 PM
Last Modified:	Monday, December 10, 2018 3:31:12 PM
Time Spent:	00:11:38
IP Address:	164.159.59.2

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**steve mars**
Organization	**USFWS - NJFO**
Email Address	**steve_mars@fws.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Brackish or marine resources and organisms ,

Coastal ecology/function,

Ecosystem services,

Fish,

Policy and/or funding,

Other (please specify):

horseshoe crabs, red knots, habitat restoration

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**4**
Marine mammals and sea turtles	**3**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Low Priority**
Invasive species	**Low Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

horseshoe crabs

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

HSC spawning and red knot foraging beaches

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**4**
Cumulative Impacts	**3**
Dredging data	**1**
Forest health	**7**
Sediment stratification	**2**
Submerged habitat	**6**
Transition zone monitoring	**5**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**Low Priority**
Dredging data	**High Priority**
Forest health	**Low Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Low Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

tidal wetlands and sea level rise - what will be lost based on current sea level rise predictions

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

sedinment loading for tidal wetlands - will it be enough given sea level rise predictions

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**6**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**5**
Pharmaceuticals	**1**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**3**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

synergystic effects on fish eating birds when multiple compounds are found in fish

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

TMDLs for the Philadelphia Trenton area of the DE river

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Yes

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Wetlands institute, Maurice River and Tributaries Friends Group, Bayshre Recovery Project

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

No

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Studying the effects on the aquatic environment including changing habitats due to sea level rise

#36

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 3:30:14 PM
Last Modified:	Monday, December 10, 2018 3:50:22 PM
Time Spent:	00:20:08
IP Address:	8.20.65.4

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Gregory Lech**
Organization	**PA Fish and Boat Commission**
Email Address	**glech@pa.gov**

Q2 Select your area(s) of expertise (please select all that apply) **Fish**

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**4**
Cumulative Impacts	**2**
Dredging data	**5**
Forest health	**1**
Sediment stratification	**6**
Submerged habitat	**7**
Transition zone monitoring	**3**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**Low Priority**
Forest health	**High Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Low Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Fish tissue analysis for bioaccumulating compounds	**7**
Microplastics	**4**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**6**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**Low Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Low Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Low Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**4**
Fish tissue analysis	**5**
Flow measurements	**1**
Groundwater	**3**
Nuisance algal blooms	**8**
Pharmaceuticals	**7**
Temperature at short intervals	**6**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**Low Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**Low Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#37

INCOMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, December 10, 2018 3:27:33 PM
Last Modified: Monday, December 10, 2018 4:47:38 PM
Time Spent: 01:20:05
IP Address: 200.178.116.82

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**David Mizrahi**
Organization	**NJ Audubon**
Email Address	**david.mizrahi@njaudubon.org**

Q2 Select your area(s) of expertise (please select all that apply)

Coastal ecology/function,

Tidal/nontidal wetlands ,

Other (please specify):

Avian ecology

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#38

INCOMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, December 10, 2018 5:04:24 PM
Last Modified: Monday, December 10, 2018 5:06:29 PM
Time Spent: 00:02:04
IP Address: 76.117.59.88

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Dianne Daly**
Organization	**Consultant**
Email Address	**power45@comcast.net**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,

Citizen science,

Coastal ecology/function,

Ecosystem services,

Other (please specify):

Coastal restoration

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#39

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Monday, December 10, 2018 7:38:13 PM
Last Modified:	Monday, December 10, 2018 8:03:20 PM
Time Spent:	00:25:06
IP Address:	100.34.201.158

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Lindsay Blanton**
Organization	**Wissahickon Valley Watershed Association**
Email Address	**lindsay@wvwa.org**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Community engagement,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Low Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

No

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Suburban Philadelphia has strong citizen science programs but no set monitoring protocols for bivalves or invasive species.

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**1**
Cumulative Impacts	**3**
Dredging data	**7**
Forest health	**2**
Sediment stratification	**4**
Submerged habitat	**5**
Transition zone monitoring	**6**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**Low Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Low Priority**
Transition zone monitoring	**Low Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

No

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

suburbia could have a much better understanding of buffer and forest health/status

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**5**
Fish tissue analysis for bioaccumulating compounds	**3**
Microplastics	**2**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**1**
Pharmaceuticals	**6**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**4**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

No

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Unsure. Recently heard about the ubiquity of microplastics in our water - would be curious to see what waterways they're found in.

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**8**
Fish tissue analysis	**6**
Flow measurements	**5**
Groundwater	**4**
Nuisance algal blooms	**2**
Pharmaceuticals	**7**
Temperature at short intervals	**3**
Wet weather (storm flow) monitoring	**1**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**Low Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Low Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

No

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Everywhere!

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Yes**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#40

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 8:23:10 AM
Last Modified:	Tuesday, December 11, 2018 8:41:47 AM
Time Spent:	00:18:37
IP Address:	129.25.250.85

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Roger Thomas**
Organization	**The Academy of Natural Sciences**
Email Address	**thomas@ansp.org**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Community engagement,
Ecosystem services,
Fish,
Shellfish and benthic resources ,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

freshwater tidal wetlands

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**2**
Cumulative Impacts	**3**
Dredging data	**7**
Forest health	**6**
Sediment stratification	**5**
Submerged habitat	**4**
Transition zone monitoring	**1**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**Low Priority**
Forest health	**Low Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

subwatershed land use, elevation

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Fish tissue analysis for bioaccumulating compounds	**1**
Microplastics	**6**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**5**
PCBs	**3**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**7**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Low Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**3**
Fish tissue analysis	**1**
Flow measurements	**2**
Groundwater	**7**
Nuisance algal blooms	**8**
Pharmaceuticals	**4**
Temperature at short intervals	**6**
Wet weather (storm flow) monitoring	**5**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**Low Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

riparian habitat, watershed land use

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

No

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

20k/year

#41

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Tuesday, December 11, 2018 8:36:23 AM
Last Modified: Tuesday, December 11, 2018 8:51:02 AM
Time Spent: 00:14:39
IP Address: 137.161.255.59

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Barbara Conlin**
Organization	**US Army Corps of Engineers**
Email Address	**Barbara.E.Conlin@usace.army.mil**

Q2 Select your area(s) of expertise (please select all that apply)

Beaches,
Brackish or marine resources and organisms ,
Coastal ecology/function,
Policy and/or funding,
Tidal/nontidal wetlands

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Marine mammals and sea turtles	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**High Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

horseshoe crabs, tubeworms, recreational fisheries

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Delaware Bay

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Cumulative Impacts	**1**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Submerged habitat	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

salt marshes

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Delaware Bay

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Monitoring conducted on the center channel replicated for the banks and at additional depths	**3**
PCBs	**2**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**1**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Flow measurements	**5**
Pharmaceuticals	**1**
Temperature at short intervals	**2**
Wet weather (storm flow) monitoring	**3**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Uncertain

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#42

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 9:04:05 AM
Last Modified:	Tuesday, December 11, 2018 9:44:18 AM
Time Spent:	00:40:13
IP Address:	161.80.1.9

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Bill Richardson**
Organization	**EPA Region 3**
Email Address	**richardson.william@epa.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Freshwater resources and organisms ,

Policy and/or funding,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**3**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Benthic macroinvertebrates for estuarine IBI development to assess aquatic life use

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

tidal Schuylkill River

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**5**
Cumulative Impacts	**1**
Dredging data	**7**
Forest health	**6**
Sediment stratification	**2**
Submerged habitat	**3**
Transition zone monitoring	**4**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**High Priority**
Dredging data	**Low Priority**
Forest health	**Low Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

tidal Schuylkill

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**5**
Fish tissue analysis for bioaccumulating compounds	**3**
Microplastics	**7**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**4**
Pharmaceuticals	**6**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**2**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

no

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

tidal Schuylkill

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**7**
Fish tissue analysis	**3**
Flow measurements	**4**
Groundwater	**8**
Nuisance algal blooms	**1**
Pharmaceuticals	**6**
Temperature at short intervals	**5**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Low Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**Low Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

biological community monitoring - macroinvertebrates and fish

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

no

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#43

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 9:45:59 AM
Last Modified:	Tuesday, December 11, 2018 9:47:28 AM
Time Spent:	00:01:28
IP Address:	155.247.96.228

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Laura Toran**
Organization	**Temple University**
Email Address	**ltoran@temple.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Data management,
Modeling,
Sediment or soils,
Urban/regional planning or land use,
Water quality,
Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**Respondent skipped this question**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#44

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 9:51:31 AM
Last Modified:	Tuesday, December 11, 2018 9:57:32 AM
Time Spent:	00:06:01
IP Address:	72.44.165.18

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Mayci Shimon**
Organization	**Independence Seaport Museum**
Email Address	**mshimon@phillyseaport.org**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,

Community engagement,

Freshwater resources and organisms ,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**2**
Cumulative Impacts	**5**
Dredging data	**3**
Forest health	**1**
Sediment stratification	**7**
Submerged habitat	**4**
Transition zone monitoring	**6**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**High Priority**
Forest health	**High Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**6**
Fish tissue analysis for bioaccumulating compounds	**1**
Microplastics	**2**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**3**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**5**
Fish tissue analysis	**3**
Flow measurements	**7**
Groundwater	**2**
Nuisance algal blooms	**4**
Pharmaceuticals	**6**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**1**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**High Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Yes**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#45

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 9:49:59 AM
Last Modified:	Tuesday, December 11, 2018 10:03:27 AM
Time Spent:	00:13:28
IP Address:	160.93.63.4

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Ron MacGillivray**
Organization	**DRBC**
Email Address	**ron.macgillivray@drbc.gov**

Q2 Select your area(s) of expertise (please select all that apply) **Water quality**

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Low Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Cumulative Impacts	**1**
Dredging data	**2**
Submerged habitat	**3**
Transition zone monitoring	**4**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Submerged habitat	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**2**
Fish tissue analysis for bioaccumulating compounds	**1**
Microplastics	**3**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**6**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**5**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

bacteria

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

urban

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**1**
Fish tissue analysis	**2**
Flow measurements	**5**
Groundwater	**8**
Nuisance algal blooms	**4**
Pharmaceuticals	**3**
Temperature at short intervals	**7**
Wet weather (storm flow) monitoring	**6**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Low Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**No**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#46

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 10:21:55 AM
Last Modified:	Tuesday, December 11, 2018 10:46:26 AM
Time Spent:	00:24:30
IP Address:	69.253.237.20

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kurt Philipp**
Organization	**Wetlands Research Services**
Email Address	**WetlandsResearchServices@gmail.com**

Q2 Select your area(s) of expertise (please select all that apply)

Coastal ecology/function,

Ecosystem services,

Invasive species,

Sediment or soils ,

Tidal/nontidal wetlands

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**3**
Cumulative Impacts	**1**
Dredging data	**7**
Forest health	**5**
Sediment stratification	**4**
Submerged habitat	**6**
Transition zone monitoring	**2**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**Low Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**1**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**5**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**6**
PCBs	**7**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**4**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**1**
Fish tissue analysis	**2**
Flow measurements	**3**
Groundwater	**6**
Nuisance algal blooms	**7**
Pharmaceuticals	**5**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**4**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis	**High Priority**
Flow measurements	**High Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Low Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

No

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#47

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 10:49:45 AM
Last Modified:	Tuesday, December 11, 2018 11:00:56 AM
Time Spent:	00:11:11
IP Address:	170.115.248.23

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Matthew Fritch**
Organization	**Philadelphia Water Department**
Email Address	**matthew.fritch@phila.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Community engagement,
Data management,
Freshwater resources and organisms ,
Sediment or soils ,
Water quality,
Water quantity

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**4**
Marine mammals and sea turtles	**3**
Population-level monitoring	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**High Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**1**
Cumulative Impacts	**3**
Dredging data	**4**
Forest health	**2**
Sediment stratification	**6**
Submerged habitat	**5**
Transition zone monitoring	**7**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Low Priority**
Submerged habitat	**Low Priority**
Transition zone monitoring	**Low Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**2**
Microplastics	**7**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**6**
Pharmaceuticals	**5**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**3**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**Low Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Low Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**8**
Fish tissue analysis	**5**
Flow measurements	**3**
Groundwater	**4**
Nuisance algal blooms	**6**
Pharmaceuticals	**7**
Temperature at short intervals	**2**
Wet weather (storm flow) monitoring	**1**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**Moderate Priority**
Groundwater	**Moderate Priority**
Nuisance algal blooms	**Low Priority**
Pharmaceuticals	**Low Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Yes

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#48

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, December 03, 2018 10:44:58 AM
Last Modified: Tuesday, December 11, 2018 11:13:49 AM
Time Spent: Over a week
IP Address: 204.46.133.181

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Mike Mansolino**
Organization	**US EPA Region 3**
Email Address	**mansolino.michael@epa.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Coastal ecology/function,
Ecosystem services,
Forests,
Freshwater resources and organisms,
Invasive species,
Policy and/or funding,
Sediment or soils,
Shellfish and benthic resources,
Tidal/nontidal wetlands,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**2**
Marine mammals and sea turtles	**3**
Population-level monitoring	**4**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**5**
Dredging data	**2**
Forest health	**3**
Sediment stratification	**4**
Submerged habitat	**1**
Transition zone monitoring	**7**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**Moderate Priority**
Forest health	**Moderate Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**7**
Fish tissue analysis for bioaccumulating compounds	**6**
Microplastics	**1**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**5**
PCBs	**2**
Pharmaceuticals	**3**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**4**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**8**
Fish tissue analysis	**7**
Flow measurements	**4**
Groundwater	**1**
Nuisance algal blooms	**6**
Pharmaceuticals	**5**
Temperature at short intervals	**2**
Wet weather (storm flow) monitoring	**3**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**High Priority**
Temperature at short intervals	**High Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Yes

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#49

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, December 03, 2018 2:53:53 PM
Last Modified: Tuesday, December 11, 2018 4:00:14 PM
Time Spent: Over a week
IP Address: 129.25.250.108

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kathryn Christopher**
Organization	**Academy of Natural Sciences**
Email Address	**kac388@drexel.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Freshwater resources and organisms ,

Water quality,

Other (please specify):

Science communication

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**2**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**6**
Cumulative Impacts	**1**
Dredging data	**7**
Forest health	**2**
Sediment stratification	**4**
Submerged habitat	**5**
Transition zone monitoring	**3**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**High Priority**
Dredging data	**Low Priority**
Forest health	**High Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Moderate Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**3**
Fish tissue analysis for bioaccumulating compounds	**5**
Microplastics	**4**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**1**
Pharmaceuticals	**2**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**6**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Low Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**6**
Fish tissue analysis	**5**
Flow measurements	**3**
Groundwater	**1**
Nuisance algal blooms	**7**
Pharmaceuticals	**4**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?	**Respondent skipped this question**

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**No**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Uncertain**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#50

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 4:20:33 PM
Last Modified:	Tuesday, December 11, 2018 4:26:25 PM
Time Spent:	00:05:52
IP Address:	96.235.132.2

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kelly Rypkema**
Organization	**Tulpehaking Nature Center**
Email Address	**krypkema@mercercounty.org**

Q2 Select your area(s) of expertise (please select all that apply)

Community engagement

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Moderate Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

We need to develop a bioassay for freshwater tidal systems in the Delaware River.

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

mid-Delaware, head of tide region

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**Respondent skipped this question**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#51

COMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Tuesday, December 11, 2018 4:35:42 PM
Last Modified:	Tuesday, December 11, 2018 4:57:14 PM
Time Spent:	00:21:32
IP Address:	108.35.10.169

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Mary Allessio Leck**
Organization	**Friends for the Abbott Marshlands**
Email Address	**leck@rider.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Tidal/nontidal wetlands ,

Other (please specify):

tidal freshwater plants and seedlings

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Invasive species	**1**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**High Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

I am not qualified.

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Nor qualified.

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Transition zone monitoring	**1**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Moderate Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**Low Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

habitat changes, e.g., high marsh to low marsh

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Microplastics	**2**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**5**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**4**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**High Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**High Priority**
Pharmaceuticals	**High Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Changes in plant species distribution; extirpation of plant speces.

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Changes and extirpation of rare species.

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Nuisance algal blooms	**1**
Pharmaceuticals	**4**
Temperature at short intervals	**3**
Wet weather (storm flow) monitoring	**2**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**Moderate Priority**
Nuisance algal blooms	**High Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**High Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

No

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

My organization is directly concerned with monitoring

#52

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Wednesday, December 12, 2018 9:01:57 AM
Last Modified:	Wednesday, December 12, 2018 9:10:31 AM
Time Spent:	00:08:34
IP Address:	129.25.250.73

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**David Keller**
Organization	**Academy of Natural Sciences**
Email Address	**dhk44@drexel.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,

Fish,

Freshwater resources and organisms ,

Invasive species,

Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**4**
Marine mammals and sea turtles	**1**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?	**Respondent skipped this question**
Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?	**Respondent skipped this question**
Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?	**Respondent skipped this question**
Q22 If you answered "no" for Question 21, what level of funding is needed for which program?	**Respondent skipped this question**

#53

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Wednesday, December 12, 2018 4:22:13 PM
Last Modified: Wednesday, December 12, 2018 4:38:07 PM
Time Spent: 00:15:53
IP Address: 73.226.50.109

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**David Bushek**
Organization	**Rutgers University Haskin Shellfish Research Laboratory**
Email Address	**bushek@hsrl.rutgers.edu**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,
Coastal ecology/function,
Ecosystem services,
Fish,
Shellfish and benthic resources ,
Other (please specify):
Shellfish pathology

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**Moderate Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Human and animal pathogens

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**7**
Cumulative Impacts	**4**
Dredging data	**3**
Forest health	**6**
Sediment stratification	**2**
Submerged habitat	**1**
Transition zone monitoring	**5**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**Low Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**Low Priority**
Forest health	**Low Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**Moderate Priority**
Transition zone monitoring	**Low Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

shoreline habitat quality and change

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**5**
Fish tissue analysis for bioaccumulating compounds	**6**
Microplastics	**7**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**1**
PCBs	**3**
Pharmaceuticals	**4**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**2**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**Moderate Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**High Priority**
PCBs	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**Moderate Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**8**
Fish tissue analysis	**5**
Flow measurements	**1**
Groundwater	**2**
Nuisance algal blooms	**6**
Pharmaceuticals	**7**
Temperature at short intervals	**4**
Wet weather (storm flow) monitoring	**3**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Low Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Low Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**High Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Yes

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Bayshore Council

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Yes

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#54

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Thursday, December 06, 2018 2:49:26 PM
Last Modified: Thursday, December 13, 2018 12:56:49 PM
Time Spent: Over a day
IP Address: 134.67.29.84

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**Kelly Somers**
Organization	**US EPA R3**
Email Address	**somers.kelly@epa.gov**

Q2 Select your area(s) of expertise (please select all that apply)

Brackish or marine resources and organisms ,
Citizen science,
Coastal ecology/function,
Community engagement,
Data management,
Ecosystem services,
Freshwater resources and organisms ,
Tidal/nontidal wetlands

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**1**
Invasive species	**2**
Marine mammals and sea turtles	**4**
Population-level monitoring	**3**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**High Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Moderate Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**1**
Cumulative Impacts	**6**
Dredging data	**3**
Forest health	**7**
Sediment stratification	**5**
Submerged habitat	**2**
Transition zone monitoring	**4**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Buffer data	**High Priority**
Cumulative impacts	**Moderate Priority**
Dredging data	**High Priority**
Forest health	**Moderate Priority**
Sediment stratification	**Moderate Priority**
Submerged habitat	**High Priority**
Transition zone monitoring	**High Priority**

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Most monitoring data was identified in the main stem and bay as well as the larger inputs, but there isn't much data on the small tribs and watersheds

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Endocrine disruptors	**4**
Fish tissue analysis for bioaccumulating compounds	**6**
Microplastics	**3**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**7**
PCBs	**1**
Pharmaceuticals	**5**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**2**

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**High Priority**
Fish tissue analysis for bioaccumulating compounds	**Moderate Priority**
Microplastics	**High Priority**
Monitoring conducted on the center channel replicated for the banks and at additional depths	**Moderate Priority**
PCBs	**High Priority**
Pharmaceuticals	**Moderate Priority**
Phytotoxins, cyanotoxins, Harmful Algal Bloom toxins	**High Priority**

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Endocrine disruptors	**4**
Fish tissue analysis	**6**
Flow measurements	**1**
Groundwater	**2**
Nuisance algal blooms	**5**
Pharmaceuticals	**7**
Temperature at short intervals	**8**
Wet weather (storm flow) monitoring	**3**

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Endocrine disruptors	**Moderate Priority**
Fish tissue analysis	**Moderate Priority**
Flow measurements	**High Priority**
Groundwater	**High Priority**
Nuisance algal blooms	**Moderate Priority**
Pharmaceuticals	**Moderate Priority**
Temperature at short intervals	**Moderate Priority**
Wet weather (storm flow) monitoring	**Moderate Priority**

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

No

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Yes

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question

#55

INCOMPLETE

Collector:	Web Link 1 (Web Link)
Started:	Friday, December 14, 2018 10:24:15 AM
Last Modified:	Friday, December 14, 2018 10:30:13 AM
Time Spent:	00:05:58
IP Address:	173.15.169.165

Page 2: Identifying Information

Q1 Please enter your contact information.

Name	**maria dziembowska**
Organization	**The Nature Conservancy**
Email Address	**mdziembowska@tnc.org**

Q2 Select your area(s) of expertise (please select all that apply)

Citizen science,
Community engagement,
Policy and/or funding,
Urban/regional planning or land use,
Water quality

Page 3: Workshop Results: Non-Plant Living Resources

Q3 Here is a list of non-plant living resources identified at the workshop as not yet being robustly monitored in the study area. From 1-4, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Freshwater bivalves	**3**
Invasive species	**1**
Marine mammals and sea turtles	**4**
Population-level monitoring	**2**

Q4 Here is a list of non-plant living resources that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Freshwater bivalves	**Low Priority**
Invasive species	**High Priority**
Marine mammals and sea turtles	**Low Priority**
Population-level monitoring	**Moderate Priority**

Q5 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any non-plant living resource parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q6 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for non-plant living resources in the future?

Respondent skipped this question

Page 4: Workshop Results: Plants and Habitat

Q7 Here is a list of plant and habitat parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Buffer data	**2**
Cumulative Impacts	**3**
Dredging data	**5**
Forest health	**1**
Sediment stratification	**4**
Submerged habitat	**6**
Transition zone monitoring	**7**

Q8 Here is a list of plant and habitat parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each resource, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q9 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any plant and habitat parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q10 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for plant and habitat parameters in the future?

Respondent skipped this question

Page 5: Workshop Results: Water Monitoring - Delaware River and Bay

Q11 Here is a list of Delaware River and Bay monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-7, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring parameters.

Respondent skipped this question

Q12 Here is a list of Delaware River and Bay monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q13 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any Delaware River and Bay monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q14 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for Delaware River and Bay monitoring parameters in the future?

Respondent skipped this question

Page 6: Workshop Results: Water Monitoring - Tributaries

Q15 Here is a list of tributary monitoring parameters identified at the workshop as not yet being robustly monitored in the study area. From 1-8, with 1 being "most important," rank the importance of these missing or not-yet robust monitoring programs.

Respondent skipped this question

Q16 Here is a list of tributary monitoring parameters that were identified at the workshop as not yet being robustly monitored in the study area. For each parameter, indicate whether you think monitoring it is a low priority, a moderate priority, or a high priority.

Respondent skipped this question

Q17 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any tributary monitoring parameters that you believe are not indicated above that should be elevated for monitoring in the future?

Respondent skipped this question

Q18 Based on a review of the draft monitoring inventory and your knowledge of other existing programs, are there any geographies that you believe would benefit from more robust monitoring efforts for tributary monitoring parameters in the future?

Respondent skipped this question

Page 7: Additional Monitoring Programs and Funding

Q19 Are you aware of volunteer organizations that could be included in the Delaware Estuary monitoring assessment?

Respondent skipped this question

Q20 If you answered "yes" for Question 19, what is/are the name(s) of the volunteer organization(s)?

Respondent skipped this question

Q21 Does your organization anticipate having sufficient funding over the next ten years to carry out existing monitoring programs within the Delaware Estuary?

Respondent skipped this question

Q22 If you answered "no" for Question 21, what level of funding is needed for which program?

Respondent skipped this question