DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
CDC Office of Financial Resources

1600 Clifton Road
Atlanta, GA 30329

NOTICE OF AWARD

AUTHORIZATION (Legislation/Regulations)
Section 317(k)(3) of the Public Health Service Act, [42 U.S.C. 247b (k)(3)]

9a. GRANTEE NAME AND ADDRESS
HEALTH AND SENIOR SERVICES, MISSOURI DEPARTMENT OF
PO BOX 570
MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES
Jefferson City, MO 65102-0570

10a. GRANTEE AUTHORIZING OFFICIAL
Ms. Tonya Loucks
920 WILLOWOOD DR
JEFFERSON CITY, MO 65109-5796
Phone: 000-000-0000

19. DUNS 870852600
20. CONG. DIST. 04

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Enhancing Innovation and Capabilities of the Environmental Public Health Tracking Network

11. APPROVED BUDGET (Excludes Direct Assistance)

<table>
<thead>
<tr>
<th>Financial Assistance from the Federal Awarding Agency Only</th>
<th>( \text{AMT ACTION FIN ASST} )</th>
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<tbody>
<tr>
<td>a. Salaries and Wages</td>
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<tr>
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<td>d. Equipment</td>
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<td>g. Construction</td>
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<td>i. Contractual</td>
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<td>j. TOTAL DIRECT COSTS</td>
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12. AWARD COMPUTATION

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<td>e. 8</td>
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<td>c. 6</td>
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</table>

15. PROGRAM INCOME SHALL BE SHOWN IN ACCORD WITH ONE OF THE FOLLOWING ALTERNATIVES:

16. THIS AWARD IS BASED ON AN APPLICATION SUBMITTED TO AND AS APPROVED BY THE FEDERAL AWARDING AGENCY ON THE ABOVE TITLED PROJECT AND IS SUBJECT TO THE TERMS AND CONDITIONS INCORPORATED EITHER DIRECTLY OR BY REFERENCE IN THE FOLLOWING:

GRANTS MANAGEMENT OFFICIAL:
Ralph U Robinson, Grants Management Officer
2960 Brandywine Rd
Maiden E01
Atlanta, GA 30341-5509
Phone: 770-488-2441

17. OBJ CLASS 41.51
18a. VENDOR CODE
18b. EIN
19. DUNS 870852600
20. CONG. DIST. 04

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<td>c. 05.070</td>
<td>d. EH</td>
<td>e. $842,170.00</td>
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### Direct Assistance

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<td>Contractual</td>
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<td>$0.00</td>
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<tr>
<td>Construction</td>
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<tr>
<td>Other</td>
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<tr>
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1. Terms and Conditions
2. Technical Review
AWARD INFORMATION

Incorporation: In addition to the federal laws, regulations, policies, and CDC General Terms and Conditions for Non-research awards at https://www.cdc.gov/grants/federalregulationspolicies/index.html, the Centers for Disease Control and Prevention (CDC) hereby incorporates Notice of Funding Opportunity (NOFO) number EH17-1702, entitled “Enhancing Innovation and Capabilities of the Environmental Public Health Tracking Network”, and application dated April 11, 2019, as may be amended, which are hereby made a part of this Non-research award, hereinafter referred to as the Notice of Award (NOA).

Approved Funding: Funding in the amount of $842,170 is approved for the Year 03 budget period, which is August 1, 2019 through July 31, 2020. All future year funding will be based on satisfactory programmatic progress and the availability of funds.

The federal award amount is subject to adjustment based on total allowable costs incurred and/or the value of any third party in-kind contribution when applicable.

Note: Refer to the Payment Information section for Payment Management System (PMS) subaccount information.

Financial Assistance Mechanism: Cooperative Agreement

Substantial Involvement by CDC: This is a cooperative agreement and CDC will have substantial programmatic involvement after the award is made. Substantial involvement is in addition to all post-award monitoring, technical assistance, and performance reviews undertaken in the normal course of stewardship of federal funds.

CDC program staff will assist, coordinate, or participate in carrying out effort under the award, and recipients agree to the responsibilities therein, as detailed in the NOFO.

1. Maintain and revise the National Tracking Network Architecture as Tracking/PHIN standards evolve in order to meet the awardee’s needs.
2. Manage and maintain the National Tracking Network based on specifications in the Technical Network Implementation Plan (TNIP - https://www.cdc.gov/nceh/tracking/foa.htm), with input from awardees and other Tracking partners.
3. Maintain the CDC gateway of the National Tracking Network.
4. Maintain and revise Tracking standards for the portal and NCDMs.
5. Review public health actions and maintain a repository of approved public health actions.
6. Foster collaboration with:
   - CDC’s National Center of Environmental Health’s Office of the Director, as needed, to maintain and facilitate the creation of any emerging Tracking-related technical and data standards.
   - CDC’s Office of Public Health Scientific Services (OPHSS), as needed, to maintain and facilitate the creation of any new Tracking-related technical and data standards.
   - CDC’s Office of Public Health Preparedness and Response (OPHPR), as needed, to maintain and facilitate the creation of any emerging Tracking-related technical and data standards.
   - Federal data partners such as the U.S. Environmental Protection Agency (EPA), the U.S. Geological Survey (USGS), National Aeronautics and Space Administration
(NASA), and National Oceanic and Atmospheric Administration (NOAA) to further the use of environmental data, fill data gaps, and develop methods and tools for use in Tracking.

- Awardees on projects to (a) improve the quality of data provided to CDC for the National Tracking Network Portals, and (b) explore methods and best practices for linking and analyzing health and environmental data.
- National data stewards and other professional organizations to facilitate data and information sharing and improvements in data quality that will support the awardees’ tracking activities.
- Tribal organizations to develop environmental health capacity and assess tribal environmental health priorities within grantee jurisdictions.

7. Coordinate:
- Technical assistance to awardees in work plan development; design and implementation of program activities, including analysis and presentation of data; and facilitation of regional trainings.
- Awardee data submissions and develop/maintain tools to assist awardees during the data submission process.
- With EPA and OPHSS to ensure interoperability between CDC’s PHIN and EPA’s National Environmental Information Exchange Network.
- Identification, development, and/or maintenance of appropriate methods and tools for use in the National Tracking Network and facilitate license agreements, where appropriate, to provide broad access among tracking partners to these tools.
- Activities at the national level among Centers, Institutes and Offices at CDC and the Agency for Toxic Substances and Disease Registry as well as other federal partners, national data organizations, and national partners.

8. Facilitate the development of Tracking-specific communication and outreach strategy guidelines with input from awardees and other Tracking partners, and the criteria to evaluate the effectiveness of the activities in the guidelines.

9. Provide specific NCDMs from federal partners for use on state and local network portals as appropriate and in compliance with CDC data sharing agreements.

10. Facilitate:
- A monthly forum for principal investigators via teleconference to promote the discussion of key Tracking issues and exchange of ideas.
- A National Tracking Program meeting approximately once every other year, and up to two grantee meetings annually.

11. Implement and participate in projects and workgroups as needed to address specific program issues. Work with awardees on workgroups as needed to solicit input from state/local partners, academic partners, and other stakeholders on issues relevant to the implementation of the state and national Tracking networks.

12. Conduct program evaluation activities including but not limited to annual or semi-annual portal evaluations for all recipients. Program evaluation activities will also include: 1) comprehensive program assessment of overall progress made toward network development at the state and national levels; 2) training activities; 3) data utilization; 4) partnership, outreach and communication activities.

13. Securely maintain, manage, and disseminate data provided by grantees and other partners as described in the Tracking Programs Data Re-Release Plan https://www.cdc.gov/nceh/_tracking/foa.htm
Summary Statement/Technical Review Statement Response Requirement: The review comments on the strengths and weaknesses of the proposal are provided as part of this award. A response to the weaknesses is not required at this time.

Budget Revision Requirement: By September 1, 2019 the recipient must submit a revised budget with a narrative justification.

1. Funds are requested to support the position of Epidemiology Specialist in the amount of $30,510, which is currently listed as vacant at a 60% for a proposed 12 months and HPR III-vacant in the amount of $1,381 at 4% for a proposed 12 months. Grant funds must match the effort. To fund these positions for a proposed 12 months would be considered forward funding and would therefore lead to an unobligated balance. Please notify this office if the positions have been filled since the submission of the application. If the positions are still vacant please reduce the proposed 12 months by at least 3 months to allow the hiring process to take place and apply the difference to support current activities.

Failure to submit the required information in a timely manner may adversely affect the future funding of this project. If the information cannot be provided by the due date, you are required to contact the GMS/GMO identified in the CDC Staff Contacts section of this notice before the due date.

Expanded Authority: The recipient is permitted the following expanded authority in the administration of the award.

☒ Carryover of unobligated balances from one budget period to a subsequent budget period. Unobligated funds may be used for purposes within the scope of the project as originally approved. Recipients will report use, or intended use, of unobligated funds in Section 12 “Remarks” of the annual Federal Financial Report. If the GMO determines that some or all of the unobligated funds are not necessary to complete the project, the GMO may restrict the recipient’s authority to automatically carry over unobligated balances in the future, use the balance to reduce or offset CDC funding for a subsequent budget period, or use a combination of these actions.

Program Income: Any program income generated under this grant or cooperative agreement will be used in accordance with the Addition alternative.

Addition alternative: Under this alternative, program income is added to the funds committed to the project/program and is used to further eligible project/program objectives.

Note: The disposition of program income must have written prior approval from the GMO.

FUNDING RESTRICTIONS AND LIMITATIONS

Indirect Costs:

Indirect costs are approved based on the negotiated indirect cost rate agreement dated March 9, 2019, which calculates indirect costs as follows, a Provisional is approved at a rate of 21.30% of the base, which includes, Direct salaries and wages including all fringe benefits. The effective dates of this indirect cost rate are from July 1, 2019 to June 30, 2021.
REPORTING REQUIREMENTS

Performance Progress and Monitoring: Performance information collection initiated under this grant/cooperative agreement has been approved by the Office of Management and Budget under OMB Number 0920-1132, “Performance Progress and Monitoring Report”, Expiration Date 8/31/2019. The components of the PPMR are available for download at: https://www.cdc.gov/grants/alreadyhavegrant/Reporting.html.

Required Disclosures for Federal Awardee Performance and Integrity Information System (FAPIIS): Consistent with 45 CFR 75.113, applicants and recipients must disclose in a timely manner, in writing to the CDC, with a copy to the HHS Office of Inspector General (OIG), all information related to violations of federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the federal award. Subrecipients must disclose, in a timely manner in writing to the prime recipient (pass through entity) and the HHS OIG, all information related to violations of federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the federal award. Disclosures must be sent in writing to the CDC and to the HHS OIG at the following addresses:

CDC, Office of Grants Services
Wanda G. Tucker, Grants Management Specialist
Centers for Disease Control and Prevention
OD, Environmental, Occupational Health and Injury Prevention Services Branch
2939 Brandywine Rd
Atlanta, GA 30341
Fax: 770-488-2640 (Include “Mandatory Grant Disclosures” in subject line)
Email: WTucker@cdc.gov (Include "Mandatory Grant Disclosures" in subject line)

AND

U.S. Department of Health and Human Services
Office of the Inspector General
ATTN: Mandatory Grant Disclosures, Intake Coordinator
330 Independence Avenue, SW
Cohen Building, Room 5527
Washington, DC 20201
Fax: (202)-205-0604 (Include “Mandatory Grant Disclosures” in subject line) or
Email: MandatoryGranteeDisclosures@oig.hhs.gov

Recipients must include this mandatory disclosure requirement in all subawards and contracts under this award.

Failure to make required disclosures can result in any of the remedies described in 45 CFR 75.371. Remedies for noncompliance, including suspension or debarment (See 2 CFR parts 180 and 376, and 31 U.S.C. 3321).

CDC is required to report any termination of a federal award prior to the end of the period of performance due to material failure to comply with the terms and conditions of this award in the OMB-designated integrity and performance system accessible through SAM (currently FAPIIS). (45 CFR 75.372(b)) CDC must also notify the recipient if the federal award is terminated for failure to comply with the federal statutes, regulations, or terms and conditions of the federal award. (45 CFR 75.373(b))
PAYMENT INFORMATION

The HHS Office of the Inspector General (OIG) maintains a toll-free number (1-800-HHS-TIPS [1-800-447-8477]) for receiving information concerning fraud, waste, or abuse under grants and cooperative agreements. Information also may be submitted by e-mail to hhstips@oig.hhs.gov or by mail to Office of the Inspector General, Department of Health and Human Services, Attn: HOTLINE, 330 Independence Ave., SW, Washington DC 20201. Such reports are treated as sensitive material and submitters may decline to give their names if they choose to remain anonymous.

Payment Management System Subaccount: Funds awarded in support of approved activities have been obligated in a newly established subaccount in the PMS, herein identified as the “P Account”. Funds must be used in support of approved activities in the NOFO and the approved application. All award funds must be tracked and reported separately.

The grant document number identified on the bottom of Page 1 of the Notice of Award must be known in order to draw down funds.

CDC Staff Contacts

Grants Management Specialist: The GMS is the federal staff member responsible for the day-to-day management of grants and cooperative agreements. The GMS is the primary contact of recipients for business and administrative matters pertinent to grant awards.

GMS Contact:
Wanda Tucker, Grants Management Specialist
Centers for Disease Control
CDC/OGS/OFR
2939 Brandywine Road, MS E-01
Atlanta, GA 30341
Telephone: 770-488-5056
Fax: 770-488-2640
Email: kna9@cdc.gov

Program/Project Officer: The PO is the federal official responsible for monitoring the programmatic, scientific, and/or technical aspects of grants and cooperative agreements, as well as contributing to the effort of the award under cooperative agreements.

Programmatic Contact:
Abhilash (Alex) Philipose, Project Officer
Centers for Disease Control and Prevention
CDC/ONDIEH/NCEH/DEHHE/EHTB
CHAM Bldg. 106 Cube 06114.8
Atlanta, Georgia 30341
Telephone: 770-488-3835
Fax: 404-471/2538
Email: xkh6@cdc.gov

Grants Management Officer: The GMO is the federal official responsible for the business and other non-programmatic aspects of grant awards. The GMO is the only official authorized to obligate federal funds and is responsible for signing the NOA, including revisions to the NOA that change the terms and conditions. The GMO serves as the counterpart to the business officer of the recipient organization. GMO contact information is located on Page 1 of this NOA.
**GMO Contact:**
Ralph Robinson, Grants Management Officer
Centers for Disease Control
CDC/OGS/OFR
2939 Brandywine Road, MS E-01
Atlanta, GA 30341
Telephone: 770-488-2441
Fax: 770-488-2640
Email: Inp2@cdc.gov
Technical Review

Recipient’s Name: Missouri Department of Health and Senior Services
Recipient #: NUE1EH001356   Budget Year: August 01, 2018 – July 31, 2019

NOFO #: CDC-RFA-EH17-1702 Title: Enhancing Innovation and Capabilities of the Environmental Public Health Tracking Network

Requested Amount: $ 842,170   Recommended Award Amount: $842,170

Actual Unobligated Funds: $   Estimated Unobligated Funds: $_____________

1. Response to Technical Review (check one):

_____ The recipient must submit a response to the weaknesses and recommendations identified in the technical review within 30 days from receipt date of the notice of award.  (Note: The recipient’s response should be reflective only of the weaknesses identified therefore, resubmission of the entire application is not required.)

X No response to Technical Review is required.

2. Budget and Work-plan (check one):

_____ Revised Budget and Work-plan are needed due to a reduction in proposed budget, which affects the proposed activities/work-plan.  (Attach budget mark-up and justification to be used by GMS to request revised budget and work-plan.)

Revised budget and work-plan are required due to – (provide reason(s)):

__________________________________________________________________________________________

X Revised budget and work-plan are NOT required.

3. Performance (check one):

X The project officer certifies performance is satisfactory to date and continued funding is recommended.

_____ The project officer certifies performance is not fully satisfactory to date and weaknesses and recommendations should be addressed, continued funding should be restricted until attached recommendations are met.

_____ The project officer has determined performance to date has been less than satisfactory and continued funding is denied.  The project officer’s determination is based on below factual data as published in the announcement.

Project Officer’s Name: Alex Philipose
(Print Name)

Project Officer’s Signature (mandatory): Alex Philipose   Date: 5/02/2019
A thorough review of the interim progress report has been performed. The review considered the evaluation criteria published in the funding opportunity announcement. Based on the review, the followings were identified:

**A. Progress report:**

**Summary of Major Strengths:**

- Many of the activities and successes in the work plan Section I relate to core objectives outlined by SC1. MO Tracking has worked with partners to update and evaluate the query system and portal display via an internal evaluation (SC1.A and SC1.B). They also have developed an API to assure that data is accessible and available (SC1.B). Also, Fall and Spring data call assures that data meets NCDM requirements (SC1.C). These are continued in Section II with continuation of CWG participation to develop NCDMs and they aim to add one new optional indicator or measure per year in collaboration with partners.

- MO Tracking has supported the work of numerous content work groups in reviewing potential data sources, analyzing data, and disseminating data on their portals (SC1.A, SC2.B, SC1.D-SC1.F). Previously these CWGs and NCDM efforts included the Sub-County Data CWG - Hospital/ED subteam and SND workgroup - Geospatial subteam. Currently, MO Tracking is participating in these: Sub-County (pilot, geocoding, aggregation, etc), Climate Change, EPVP, and Community Design. These CWGs provide training to help MO Tracking assist partners and help develop NCDMs.

- MO Tracking’s work on HABs is impressive. Many of the activities as described support core objectives SC2. MO Tracking worked with state partners to establish a protocol for gathering data for tracking and responding to HABs. The protocol increased testing of community lakes and this metric and protocol report were submitted as a PHA.

- For SC2.B, MO Tracking collaborated on a pilot project integrating lung cancer and indoor air radon data to target areas in need of additional radon testing. Maps and targeted outreach will inform possible PHAs (SC2.D). One county has been targeted for outreach.

- To address core objective SC1.D, MO Tracking is working with data partners to compile private well water data and a database with mapping capability. This is in collaboration with BEE Private Drinking Water Program and State Public Health Laboratory.

- MO Tracking is improving the data measures related to lead poisoning. MO Tracking is working with BEE to increase the quality and quantity of electronic health record data for blood lead data. Plain language messaging and risk based maps will inform outreach and the dashboard for LHAs on lead poisoning will support core objectives SC1.B and SC2.B.

- MO Tracking is working on projects that involve integration of air quality and respiratory disease data to identify areas of concern.

- Submitted optional datasets in data call e.g., Radon, and Blood lead NCDMs

- Worked with data stewards to classify geocoding precision for sub-county data

- Also established a protocol with data stewards on gathering data for harmful algal blooms

- Participated in portal reviews

- Currently working on an API to allow access to air, water and COPD data

- Participated in the sub-county pilot project/s
  - Established processes for sharing sub-county data for aggregation

**Summary of Major Weaknesses:** None
**Other Relevant Comments:** Work on having activities in project narrative also be consistent with those in the work plan. Also, provide further details in monthly calls on projects such as fish advisory project, and consider where routine analyses aligns with core objective SC2.A or SC2.C. Also in monthly calls, discuss how exactly API is used.

**B. New Budget Period Proposal Objectives:**

**Summary of the Project:**
The project consists of maintenance and update of existing EPHT data, and addition of new data sets which are of interest to the recipient’s program as additional years of data are collected and released by the data steward. Major activities within the project target the content areas of Science and Content, Technology and Informatics, Communications, and Program Services strategies and outcomes.

**Summary of Major Strengths:**
- Has plans to work with other programs to develop new outreach materials on radon and lead poisoning.
- Overall proposed activities are consistent with program requirements.

**Summary of Major Weaknesses:** None

**Recommendations:**

**Other Relevant Comments:**
On monthly calls further detail collaborative planned work, especially ongoing work with Midwest PMO and PMO overall.