Environment & Health Data Portal: Neighborhood Reports re-build

Project Description and Statement of Objectives

# Overview

This project is to design and implement a web page to share easy to understand profiles of neighborhood environmental health data, based on an existing data/content API.

These profiles will replace [the existing profiles](http://a816-dohbesp.nyc.gov/IndicatorPublic/QuickView.aspx) currently available on the Environment and Health Data Portal. They will be based on the user research and initial wireframing that our team has already done. We want to leverage your skills in design and implementation within our given constraints.

The Environment & Health Data Portal team at DOHMH has been conducting research with users to understand how the Neighborhood Reports can best benefit them. From this research, we are developing design guidance for the contractor – these will include specifics about interaction, presentation, wireframes, and other initial material that the contractor will use as a starting point for this work.

We will be an active partner in this work, eager to pair our product vision and design guidance with your implementation expertise.

DOHMH contacts

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Report APIs: all the data and text content will come from our data and content APIs:

* [documentation](http://a816-dohmeta.nyc.gov/MetadataLite/Help)
* [Sample Report List API endpoint](http://a816-dohmeta.nyc.gov/MetadataLite/api/Report/GetReportData)
* [Sample Report Content API endpoint](http://a816-dohmeta.nyc.gov/MetadataLite/api/Report/GetReportData?report_id=78&geo_type_id=3&geo_entity_id=303)

Objectives

Users should be able to

Be introduced to the reports: what are they for?

Select a report to look at

Select a neighborhood in NYC that is relevant to them

Things users should be able to do with the reports

See Indicator data for the selected neighborhood, with a description

Understand the grouping of the indicators

Find more depth of information on each indicator, by linking to EH data portal [indicator pages](http://a816-dohbesp.nyc.gov/IndicatorPublic/VisualizationData.aspx?id=45,719b87,36,Summarize)Share specific reports via social media or email

View reports on a mobile device

Print reports

Build on existing city resources and standards  
**Styling / city design framework**: the [city digital blueprint](https://blueprint.cityofnewyork.us/design/), as much as possible using the [NYC Core Framework](https://www1.nyc.gov/assets/doitt/html/nyc-core-framework/index.html), a Bootstrap-based front-end framework with added design patterns and other components optimized for accessibility, translation, and clarity of presentation.

**Accessibility**: the city’s [standards and guidance](https://blueprint.cityofnewyork.us/accessibility/)

## Build Mobile First

All components of this project need to render well in a variety of mobile browsers, both tablet and phone. At minimum, testing with all mobile form factors supported in the Chrome developer tools emulator should be covered.

Build in the open  
We’d like development to happen in the open in a shared github repository, so that we can participate more easily in review, etc. Our staff will need to be able to deploy the code ourselves.

Background resources   
These are [the current Neighborhood Reports](http://a816-dohbesp.nyc.gov/IndicatorPublic/QuickView.aspx) on the Environment and Health Data portal – they will be rebuilt and replaced with this work.

Deliverables

Working reports web page in staging environment (such as github pages) and code

Any documentation / maintenance notes

Timeline (TBD)

Kickoff

Beta testing period

Final code delivery : April 30th 2020

DOHMH Staff to deploy to production shortly thereafter

# Contract amount

This contract will be executed as a city micropurchase for $20,000.00 or less.

## Appendix 1: Sample User Stories to guide development

DOHMH team will share our user research artifacts and build out other user stories to clarify objectives as needed.

* As a neighborhood health advocate, I need an easy-to-read report with data to show me what are the areas of concern for my neighborhood, so I can take focused action to improve the health of my neighbors.
* As a neighborhood health advocate, I need an easy-to-read data report that lets me compare my neighborhood to other neighborhoods, so that I understand what might be behind high rates of certain health outcomes.
* As a data analyst with the city council, I need a quick location-based summary of data related to health in specific topic areas, so that I can explain the issues to council people and other policymakers.
* As a data analyst with the city council, I also need to download neighborhood level health data so that I can run my own analyses.
* As a curious consumer of information, I want to explore an easy-to-use interactive tool so I can learn something new about my neighborhood, my surroundings, and what could affect my health.
* [more to come]

## Appendix 2: Quality Assessment Surveillance Plan

| **Deliverable** | **Performance Standard(s)** | **Acceptable Quality Level** | **Method of Assessment** |
| --- | --- | --- | --- |
| **Tested Code** | Code delivered under the order must have substantial test code coverage and a clean code base. Version-controlled, public repository of code comprising the product, which will remain in the government domain | Minimum of 90% test coverage of all code | Combination of manual review and automated testing |
| **Properly Styled Code** | [GSA 18F Front-End Guide](https://frontend.18f.gov/) | 0 linting errors and 0 warnings | Combination of manual review and automated testing |
| **Accessibility** | Web Content Accessibility Guidelines 2.1 AA standards | 0 errors reported using an automated scanner, and 0 errors reported in manual testing | [Pa11y](https://github.com/pa11y/pa11y) |
| **Deployed** | Code must successfully build and deploy into staging environment | Successful build with a single command | Combination of manual review and automated testing |
| **Documented** | All dependencies are listed and the licenses are documented. Major functionality in the software/source code is documented. Individual methods are documented inline using comments that permit the use of documentation-generation tools such as [JSDoc](http://usejsdoc.org/). A system diagram is provided | Combination of manual review and automated testing, if available | Manual review |
| **Security** | [OWASP Application Security Verification Standard 4.0, Level 2](https://www.owasp.org/images/d/d4/OWASP_Application_Security_Verification_Standard_4.0-en.pdf) | Code submitted must be free of medium- and high-level static and dynamic security vulnerabilities | Clean tests from a static testing SaaS (such as [npm audit](https://docs.npmjs.com/cli/audit)) and from [OWASP ZAP](https://www.owasp.org/index.php/OWASP_Zed_Attack_Proxy_Project), along with documentation explaining any false positives |
| **User research** | Usability testing and other user research methods must be conducted at regular intervals throughout the development process (not just at the beginning or end) | Artifacts from usability testing and/or other research methods with end users are available at the end of every applicable sprint, in accordance with the vendor’s research plan | Manual review |