

METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

**Project ID 10142910
Ludlow Run Sustainable Source Control
Contract 95x12762**

Progress Report for
Professional Services provided November 2, 2020 through November 29, 2020

Arcadis U.S., Inc.

At the request of the Metropolitan Sewer District of Greater Cincinnati, Arcadis worked on the following items as summarized below.

Task 1 Project Administration - Planning

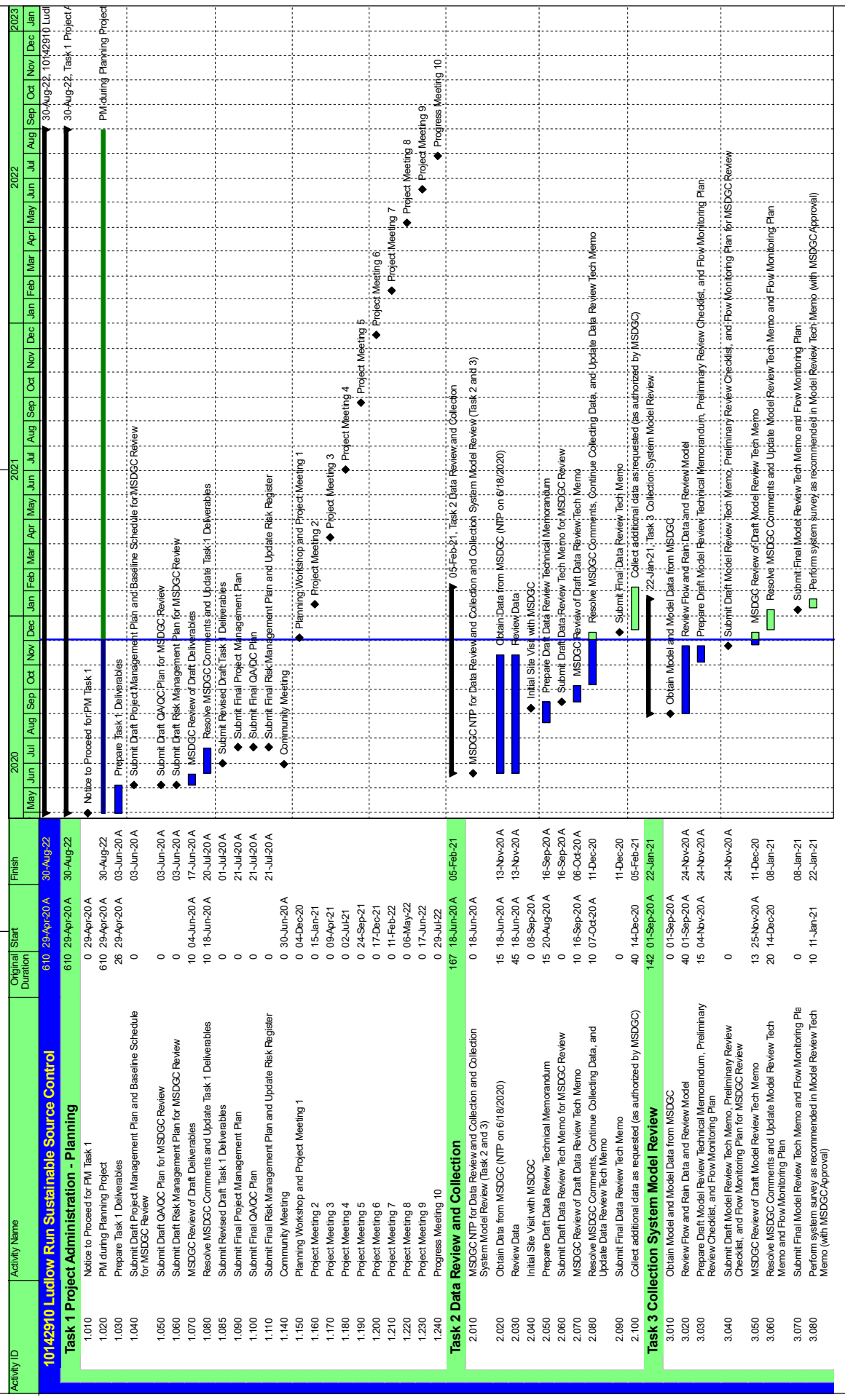
- Performed project administration and resource management; communicated updates to MSDGC project manager.
- Communicated Project Schedule updates and met with client to discuss updated schedule.

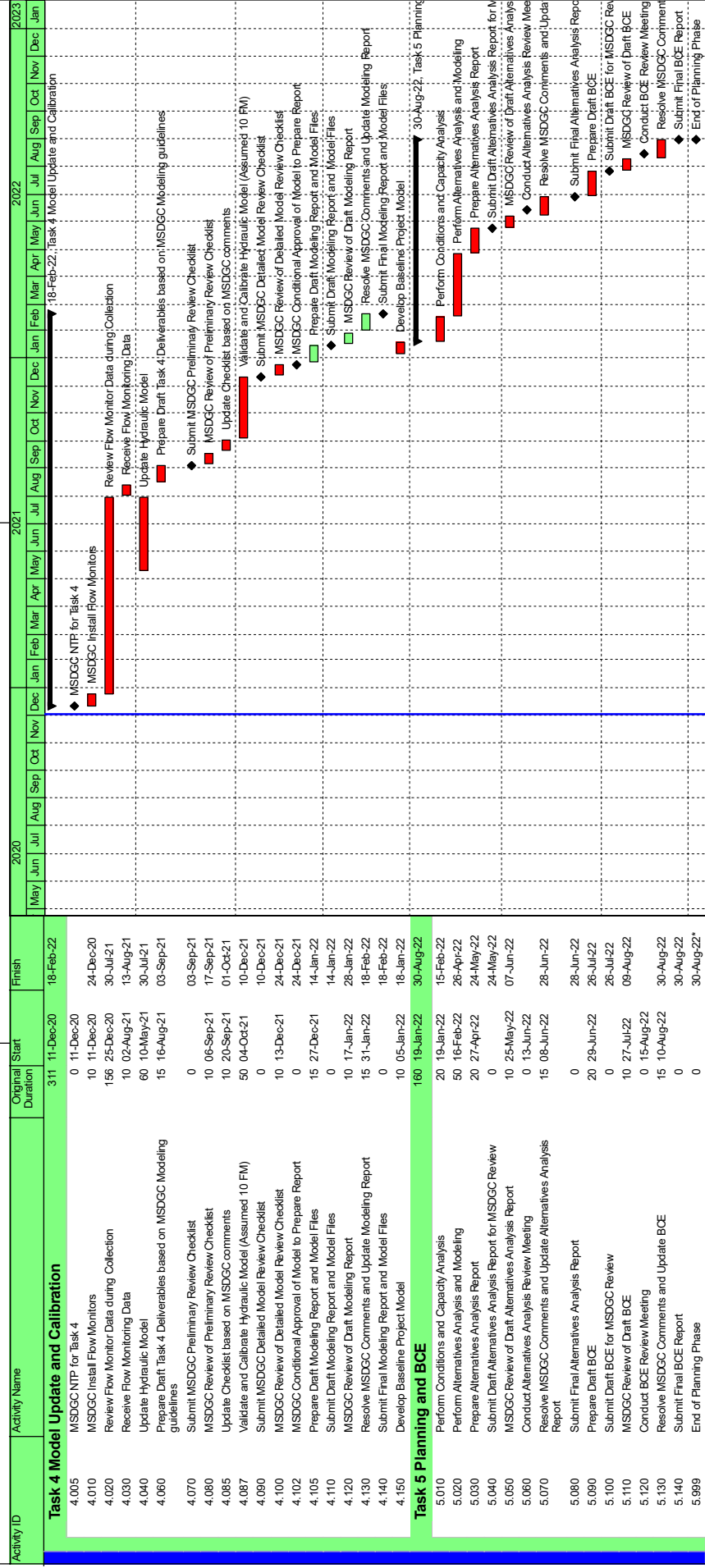
Task 2 Data Review and Collection

- Submitted Site Visit Summary to MSDGC on 11/4/2020
- Continued update of data inventory as data items were received and communicated with Project Manager on items yet to be received.
- Met with MSDGC for additional information on asset management program and how to utilize the GSAM shapefile.

Task 3 Collection System Model Review

- Developed the Draft Model Review Technical Memorandum and Flow Monitoring Plan for submittal on 11/24/2020.
- Developed Preliminary Review Modeler Checklist #1 for Ludlow Run monitors and model comparison for submittal on 11/24/2020.





Activity Name	Original Start	Original Duration	Finish
MSDGC NTP for Task 4	11-Dec-20	311	18-Feb-22
MSDGC Install Flow Monitors	11-Dec-20	0	30-Jul-20
Review Flow Monitor Data during Collection	25-Dec-20	156	24-Dec-21
Receive Flow Monitoring Data	02-Aug-21	10	13-Aug-21
Update Hydraulic Model	10-May-21	60	30-Jul-21
Prepare Draft Task 4 Deliverables based on MSDGC Modeling guidelines	16-Aug-21	15	03-Sep-21
Submit MSDGC Preliminary Review Checklist		0	03-Sep-21
MSDGC Review of Preliminary Review Checklist	06-Sep-21	10	17-Sep-21
Update Checklist based on MSDGC comments	20-Sep-21	50	01-Oct-21
Validate and Calibrate Hydraulic Model (Assumed 10 FM)	04-Oct-21	50	10-Dec-21
Submit MSDGC Detailed Model Review Checklist	13-Dec-21	10	24-Dec-21
MSDGC Review of Detailed Model Review Checklist		0	24-Dec-21
MSDGC Conditional Approval of Model to Prepare Report	27-Dec-21	15	14-Jan-22
Prepare Draft Modeling Report and Model Files		0	14-Jan-22
Submit Draft Modeling Report and Model Files	17-Jan-22	10	28-Jan-22
Resolve MSDGC Comments and Update Modeling Report	31-Jan-22	15	18-Feb-22
Submit Final Modeling Report and Model Files	05-Jan-22	10	18-Jan-22
Develop Baseline Project Model	19-Jan-22	160	30-Aug-22
Perform Conditions and Capacity Analysis	19-Jan-22	20	15-Feb-22
Perform Alternatives Analysis and Modeling	16-Feb-22	50	26-Apr-22
Prepare Alternatives Analysis Report	27-Apr-22	20	24-May-22
Submit Draft Alternatives Analysis Report for MSDGC Review		0	24-May-22
MSDGC Review of Draft Alternatives Analysis Report	25-May-22	10	07-Jun-22
Conduct Alternatives Analysis Review Meeting	13-Jun-22	0	07-Jun-22
Resolve MSDGC Comments and Update Alternatives Analysis Report	08-Jun-22	15	28-Jun-22
Submit Final Alternatives Analysis Report		0	28-Jun-22
Prepare Draft BCE	29-Jun-22	20	26-Jul-22
Submit Draft BCE for MSDGC Review		0	26-Jul-22
MSDGC Review of Draft BCE	27-Jul-22	10	09-Aug-22
Conduct BCE Review Meeting	15-Aug-22	0	15-Aug-22
Resolve MSDGC Comments and Update BCE	10-Aug-22	15	30-Aug-22
Submit Final BCE Report		0	30-Aug-22
End of Planning Phase		0	30-Aug-22*