

METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

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

Progress Report for
Professional Services provided March 22, 2021 through May 30, 2021

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

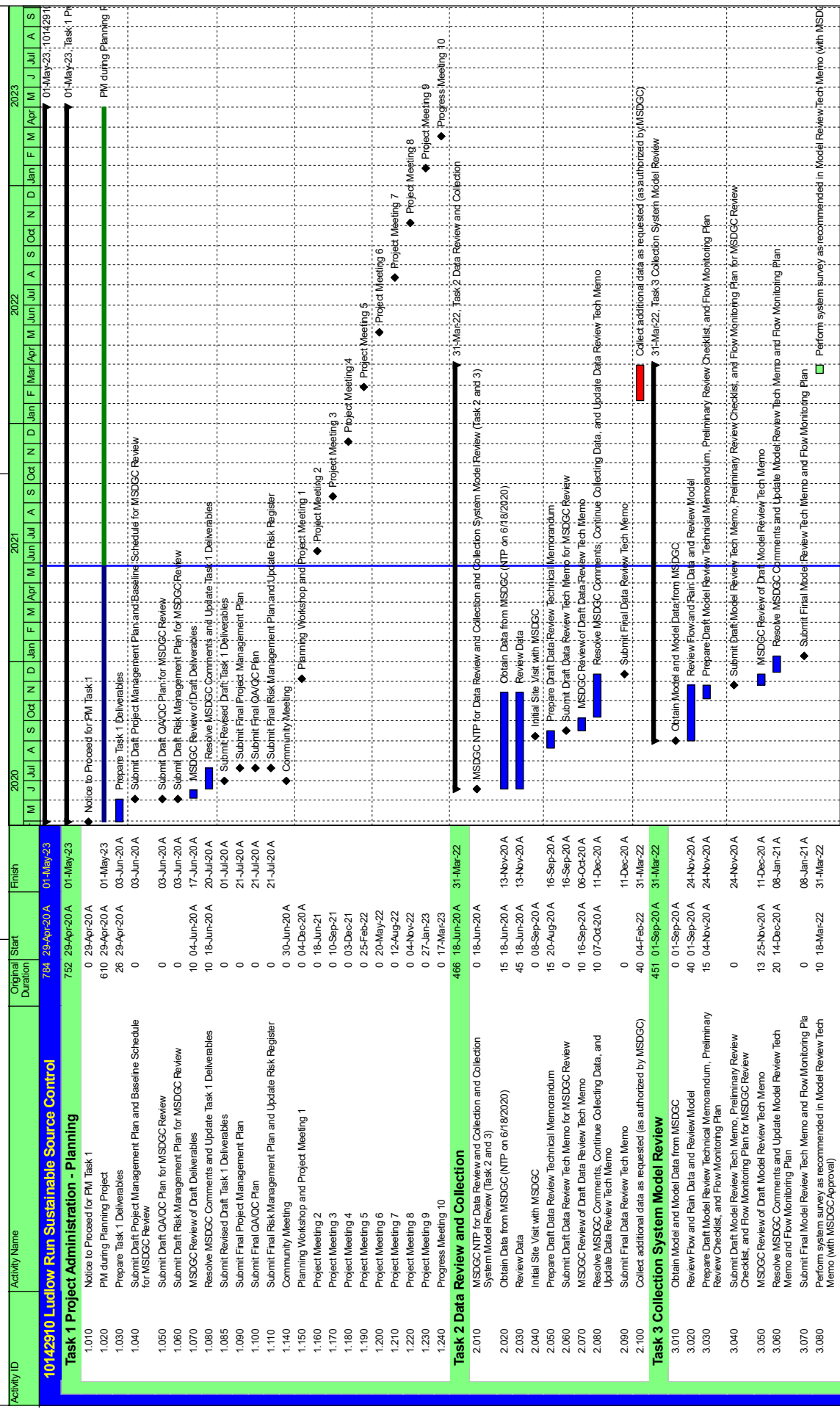
- Performed project administration and resource management; communicated updates to MSDGC project manager.
- Communicated Project Schedule updates and met with client to discuss a schedule update. Updated schedule is included with this progress report based on Flow Meter Installation dates.
- Discussion of Flow Meter installation dates.
- Call with Client concerning project manager turnover, discussion of Schedule Updates

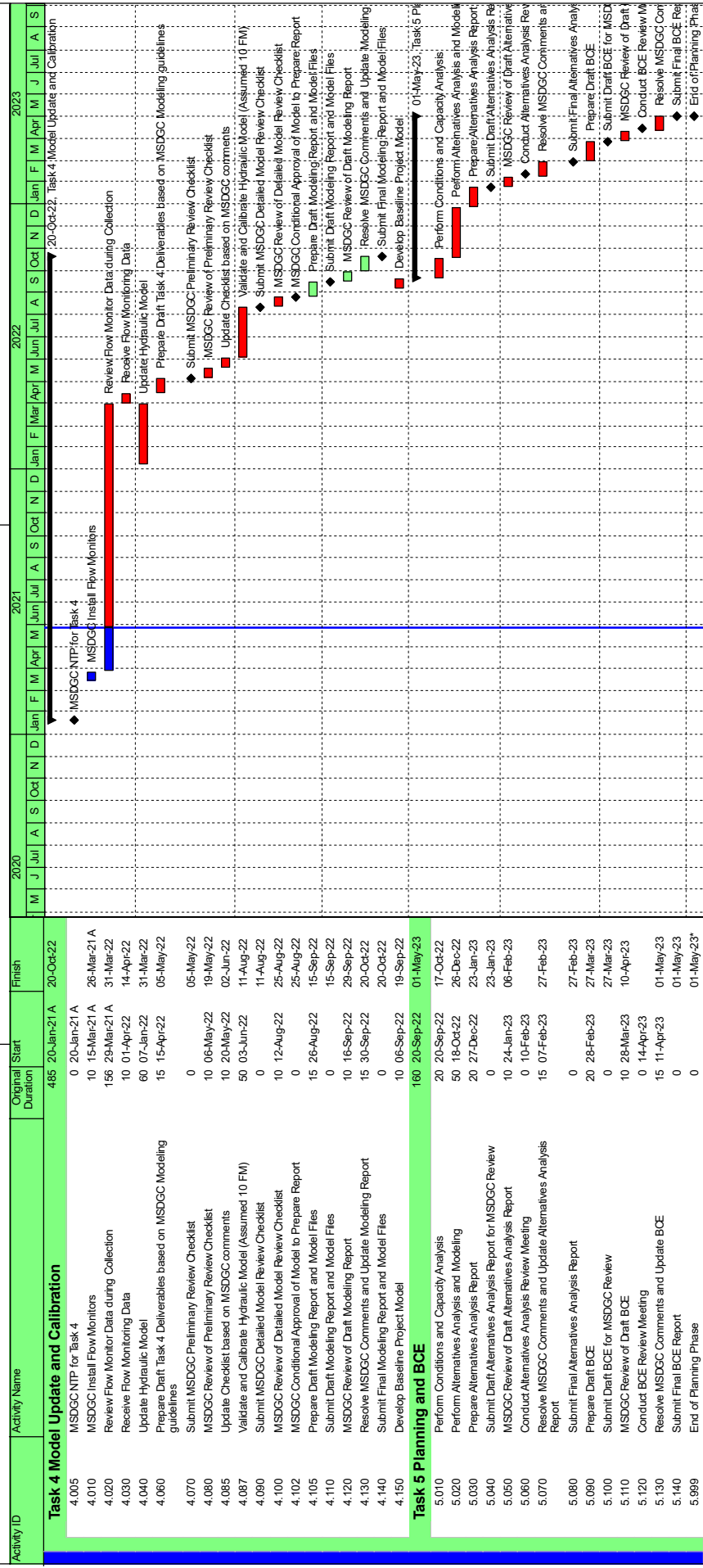
Task 2 Data Review and Collection

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Task 3 Collection System Model Review

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Activity Name	Original Start	Original Duration	Finish
MSDGC NTP for Task 4	0 20-Jan-21 A	485	20-Oct-22
MSDGC Initial Flow Monitors	10 15-Mar-21 A	10	26-Mar-21 A
Receive Flow Monitor Data during Collection	156 29-Mar-21 A	156	31-Mar-22
Receive Flow Monitoring Data	10 01-Apr-22	10	14-Apr-22
Update Hydraulic Model	60 07-Jan-22	60	31-Mar-22
Prepare Draft Task 4 Deliverables based on MSDGC Modeling guidelines	15 15-Apr-22	15	05-May-22
Submit MSDGC Preliminary Review Checklist	0 05-May-22	0	05-May-22
MSDGC Review of Preliminary Review Checklist	10 06-May-22	10	19-May-22
Update Checklist based on MSDGC comments	10 20-May-22	10	02-Jun-22
Validate and Calibrate Hydraulic Model (Assumed 10 FM)	50 03-Jun-22	50	11-Aug-22
Submit MSDGC Detailed Model Review Checklist	0 11-Aug-22	0	11-Aug-22
MSDGC Review of Detailed Model Review Checklist	10 12-Aug-22	10	25-Aug-22
MSDGC Conditional Approval of Model to Prepare Report	0 25-Aug-22	0	25-Aug-22
Prepare Draft Modeling Report and Model Files	15 26-Aug-22	15	15-Sep-22
Submit Draft Modeling Report and Model Files	0 15-Sep-22	0	15-Sep-22
MSDGC Review of Draft Modeling Report	10 16-Sep-22	10	29-Sep-22
Resolve MSDGC Comments and Update Modeling Report	15 30-Sep-22	15	20-Oct-22
Submit Final Modeling Report and Model Files	0 20-Oct-22	0	20-Oct-22
Develop Baseline Project Model	10 06-Sep-22	10	19-Sep-22
Perform Conditions and Capacity Analysis	180 20-Sep-22	180	01-May-23
Perform Alternatives Analysis and Modeling	20 20-Sep-22	20	17-Oct-22
Prepare Alternatives Analysis Report	50 18-Oct-22	50	26-Dec-22
Submit Draft Alternatives Analysis Report for MSDGC Review	20 27-Dec-22	20	23-Jan-23
MSDGC Review of Draft Alternatives Analysis Report	0 23-Jan-23	0	23-Jan-23
Conduct Alternatives Analysis Review Meeting	10 24-Jan-23	10	06-Feb-23
Resolve MSDGC Comments and Update Alternatives Analysis Report	0 10-Feb-23	0	10-Feb-23
Submit Final Alternatives Analysis Report	15 07-Feb-23	15	27-Feb-23
Prepare Draft BCE	0 27-Feb-23	0	27-Feb-23
Submit Draft BCE for MSDGC Review	20 28-Feb-23	20	27-Mar-23
MSDGC Review of Draft BCE	0 27-Mar-23	0	27-Mar-23
Conduct BCE Review Meeting	10 28-Mar-23	10	10-Apr-23
Resolve MSDGC Comments and Update BCE	0 14-Apr-23	0	14-Apr-23
Submit Final BCE Report	15 11-Apr-23	15	01-May-23
End of Planning Phase	0 01-May-23	0	01-May-23*