

# METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI

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

Progress Report for  
Professional Services provided September 26, 2022 through October 30, 2022

Arcadis U.S., Inc.

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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.
- Draft schedule is has received comments from MSDGC and will be update accordingly to actual submittals for steps 4 and 5. This will be included with next invoice.

#### Task 2 Data Review and Collection

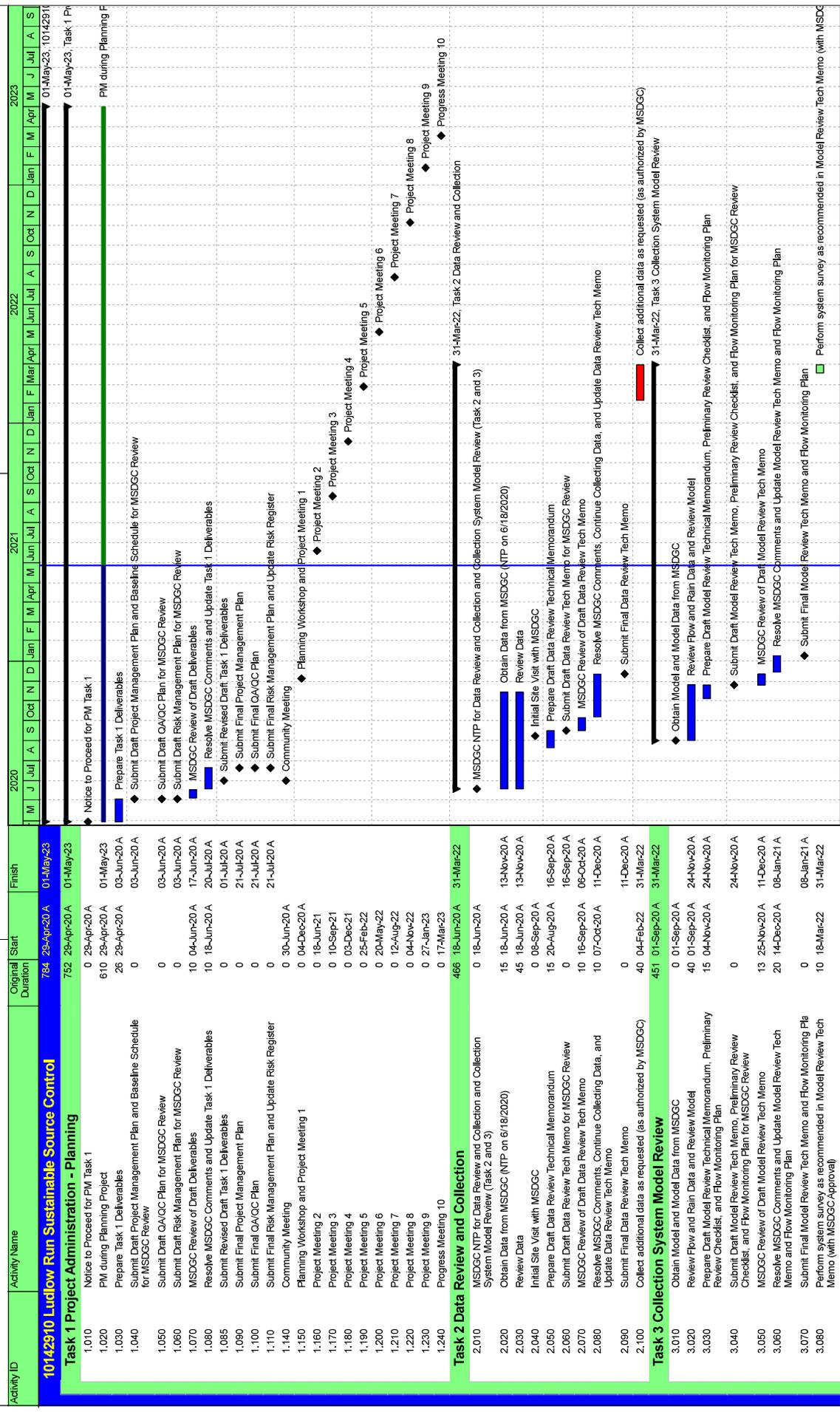
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#### Task 3 Collection System Model Review

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#### Task 4 Model Update and Calibration

- Performed data review and event development for 12 meters.
- Performed review of monitoring site maintenance logs and complete table.
- Performed event exclusion tables for 12 meters.
- Performed Flowfinity Submittal for Event File app for 12 meters.
- Meetings and coordination with MSDGC on schedule updates.
- Performed initial review of Hazen Delineation and discovered need for update (model couldn't run)



Activity ID	Activity Name	Original Start	Finish	2020	2021	2022	2023											
		Duration		J	M	J	J	J	J	J	J	J	J	J	J	J	J	J
<b>Task 4 Model Update and Calibration</b>																		
4.005	MSDGC NTP for Task 4	0	20-Jan-21 A															
4.010	MSDGC Install Flow Monitors	10	15-Mar-21 A															
4.020	Review Flow Monitor Data during Collection	156	29-Mar-21 A															
4.030	Receive Flow Monitoring Data	10	01-Apr-22															
4.040	Update Hydraulic Model	60	07-Jan-22															
4.060	Prepare Draft Task 4 Deliverables based on MSDGC Modeling guidelines	15	15-Apr-22															
4.070	Submit MSDGC Preliminary Review Checklist	0	05-May-22															
4.080	MSDGC Review of Preliminary Review Checklist	10	06-May-22															
4.085	Update Checklist based on MSDGC comments	10	20-May-22															
4.087	Validate and Calibrate Hydraulic Model (Assumed 10 FM)	50	03-Jun-22															
4.090	Submit MSDGC Detailed Model Review Checklist	0	11-Aug-22															
4.100	MSDGC Review of Detailed Model Review Checklist	10	12-Aug-22															
4.102	MSDGC Conditional Approval of Model to Prepare Report	0	25-Aug-22															
4.105	Prepare Draft Modeling Report and Model Files	15	26-Aug-22															
4.110	Submit Draft Modeling Report and Model Files	0	15-Sep-22															
4.120	MSDGC Review of Draft Modeling Report	10	16-Sep-22															
4.130	Resolve MSDGC Comments and Update Modeling Report	15	30-Sep-22															
4.140	Submit Final Modeling Report and Model Files	0	20-Oct-22															
4.150	Develop Baseline Project Model	10	06-Sep-22															
<b>Task 5 Planning and BCE</b>																		
5.010	Perform Conditions and Capacity Analysis	160	20-Sep-22															
5.020	Perform Alternatives Analysis and Modeling	20	20-Sep-22															
5.030	Prepare Alternatives Analysis Report	50	18-Oct-22															
5.040	Submit Draft Alternatives Analysis Report for MSDGC Review	0	27-Dec-22															
5.050	MSDGC Review of Draft Alternatives Analysis Report	10	24-Jan-23															
5.060	Conduct Alternatives Analysis Review Meeting	0	10-Feb-23															
5.070	Resolve MSDGC Comments and Update Alternatives Analysis Report	15	07-Feb-23															
5.080	Submit Final Alternatives Analysis Report	0	27-Feb-23															
5.090	Prepare Draft BCE	20	28-Feb-23															
5.100	Submit Draft BCE for MSDGC Review	0	27-Mar-23															
5.110	MSDGC Review of Draft BCE	10	28-Mar-23															
5.120	Conduct BCE Review Meeting	0	14-Apr-23															
5.130	Resolve MSDGC Comments and Update BCE	15	11-Apr-23															
5.140	Submit Final BCE Report	0	01-May-23															
5.999	End of Planning Phase	0	01-May-23*															

