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From:
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ARCADIS G&M of North Carolina, Inc.

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Date:
August 2, 2016

Arcadis Project No.:
B0060013.0019

Subject:
**Progress Report – Second Quarter 2016
National Starch & Chemical Company Superfund Site, Salisbury, NC**

ARCADIS is submitting this progress report to meet the requirements of paragraph 14 of executed Unilateral Administrative Orders (UAO) on the subject site. (The EPA has agreed that for the foreseeable future quarterly reports will be acceptable.) The progress report: a) documents the actions taken in the last six months to achieve compliance with the consent decree (CD); b) includes summaries of results of sampling data received or generated in the previous two months; c) identifies work plans or other deliverables required by the CD that were completed and submitted during the previous two months; d) describes all actions forecasted to be performed over the next six weeks and construction progress, including a Gantt chart for achieving the CD requirements; e) provides an update on the overall schedule for the project, including percentage completed and efforts to address any delays; f) includes any modifications to work plans or schedules proposed to or approved by EPA; and g) describes activities completed in accordance with the Community Relations Plan in the last 30 days and forecasted for the next six weeks.

The following actions have taken place since the last progress report:

- Start-up of the OU3/OU4 North Production Area remediation system during the week of June 13th after completion of repairs. This included the tuning of the system to focus remediation efforts on the area underneath the Area 2 Production Room using the recently installed air sparge wells.
- Completed the treatability bench-testing program for the OU1 groundwater to evaluate its treatability using a simulated process similar to the Industrial Wastewater Treatment Plant.
- Completed the drafting of the Preliminary Engineering Report for Groundwater Treatment System upgrade. The draft report will be issued internally in July 2016.

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- Completed the peer review of the OU1 groundwater extraction system and identified next steps in the program to design and install future extraction wells.
- Completing preparation of the 2015 Site Monitoring Report. The draft of the report should be issued to the EPA and the State of North Carolina by late-July.
- IWB-1 extracted groundwater from OU3 at a rate of approximately 17 gpm from April through the end of June operating on a schedule of 24 hrs/day, 5 days/week. Groundwater extraction is suspended at 5 pm on Fridays and resumes the following Monday. The total volume extracted for the first quarter of 2016 was 1,033,116 gallons. The latest sample result (June 20, 2016) for the IWB-1 groundwater indicated a DCA concentration of 45 µg/L. Because of the significant drop in concentration between this sample and the last sample, Arcadis will be collecting a confirmation sample in early-July.
- On-site disposal through the IWWTP of the IDW from the 2015 OU1 extraction well installation and redevelopment activities.

The following sampling data has been received since the last progress report

- Passive soil gas samples from the OU3/OU4 North Production Area to assess the progress of the remediation in the Area. The results indicated decreasing concentrations in the eight of 10 sample locations compared to the most recent sampling (April 2013). The remaining two locations remained consistent with the previous sample results. A complete analysis of the data and discussion on the overall remediation effort in 2016 will be included with the 2016 Site Monitoring Report.
- June IWB-1 sampling
- IDW samples from the two frack tanks holding development and testing groundwater from the Mid-Plume extraction wells.

The following work plans and other submittals have been completed and submitted in the last two months:

- None

The following actions are forecast to be completed in the next six weeks:

- Preparation and submittal of the Work Plan to evaluate the NS-31 groundwater conditions and its ability to transport contaminants beyond the creek
- Preparation and submittal of the Notice of Intent to inject dye into selected NS-31 wells as part of the NS-31 transport assessment
- Starting of the NS-31 transport assessment work after plan submittal and approval
- Continue operation of the OU3/OU4 North Production Area remediation system
- Continue operation of OU3 extraction well IWB-1 and the groundwater pretreatment system.

The following sampling activities are being proposed:

- Early-July and continuing quarterly sampling of groundwater from OU3 extraction well IWB-1
- Air sampling associated with the OU3/OU4 North Production Area remediation system.

The following is the updated Gantt chart for the project:

- Updated Project Schedule included in this progress report. The schedule has been edited to add the NS-31 activities and its impacts on the overall schedule.

The following are requested modifications to work plans or schedules submitted to the EPA:

- None

The following describes activities completed in accordance with the support of EPA's Community Relations Plan:

- No activities have been requested.

MEMO

Should you have any questions regarding this Progress Report, do not hesitate to contact the Project Coordinator.

Sincerely,

ARCADIS

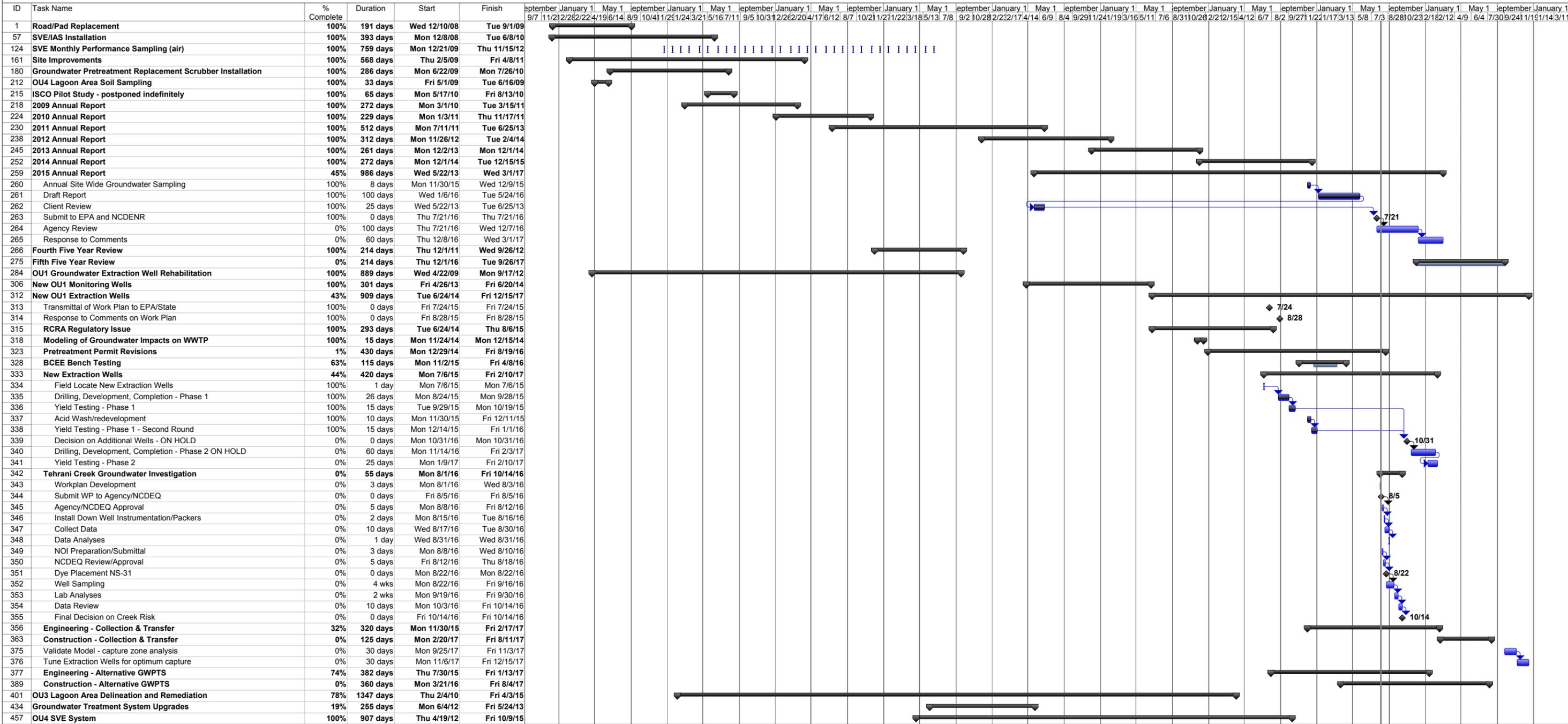


Bruce D. Reilly

Project Coordinator

Attachments Updated Project Schedule

Site-Wide Environmental Schedule NSCC Superfund Site - Salisbury, NC



Project: Master Schedule_060812.mxp
Date: Thu 8/4/16

Task		Summary		External Milestone		Inactive Summary		Manual Summary Rollup		Finish-only	
Split		Project Summary		Inactive Task		Manual Task		Manual Summary		Progress	
Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		Deadline	