

Monthly Progress Report

April 2017





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Program Overview

Program Overview

Summary

The City of Enid, Oklahoma (City) has historically enjoyed an adequate supply of water resources to support consumers in Enid and its wholesale customers. However, the City's annual water demand has begun to exceed the annual yield of the existing groundwater supply, which has resulted in depletion of the aquifer system. To address this supply gap, the City initiated a Water Master Plan (by others) that recommended developing a new surface water supply from Kaw Lake to supplement the existing groundwater supply.

Key Components

Intake and Intermediate Booster Pump Stations

The Intake and intermediate booster pump station will provide the means to pump water from Kaw Lake to Enid. This will include an intake structure on Kaw Lake and an intake pumping station. An intermediate pump station will be located about two-thirds of the way to Enid along the pipeline and will provide additional pressure necessary to convey the design flow to the treatment plant site.

Pipeline

The pipeline will convey the raw water from the proposed Kaw Lake intake structure to the proposed Water Treatment Plant along a 70-mile direct corridor.

Terminal Storage Reservoirs

Terminal storage is employed to provide a constant supply of raw water to the new water treatment plant, and it can also be utilized to minimize costs associated with conveyance of raw water. As such, the main components of the terminal storage assessed for the current project were emergency storage and equalization storage. For this program, the City desires to separate the volume dedicated for equalization storage from the volume for emergency storage. Therefore, the terminal storage is divided into two components:

- Equalization (TSR EQ) – storage used on a routine basis to meet peak demands
- Emergency (TSR EM) – storage used only when raw water conveyance is not in service

Water Treatment Plant

A new surface water treatment plant will be needed to meet the water quality objectives necessary to provide safe drinking water as well as to meet the aesthetic desires such as taste and odor. These objectives can be met by a combination of conventional treatment to produce safe drinking with the addition of polishing to reduce objectionable tastes and odors.

Distribution

Distribution system improvements are necessary to blend the existing groundwater with the treated surface water and to connect the blended water into the existing City of Enid water distribution network.

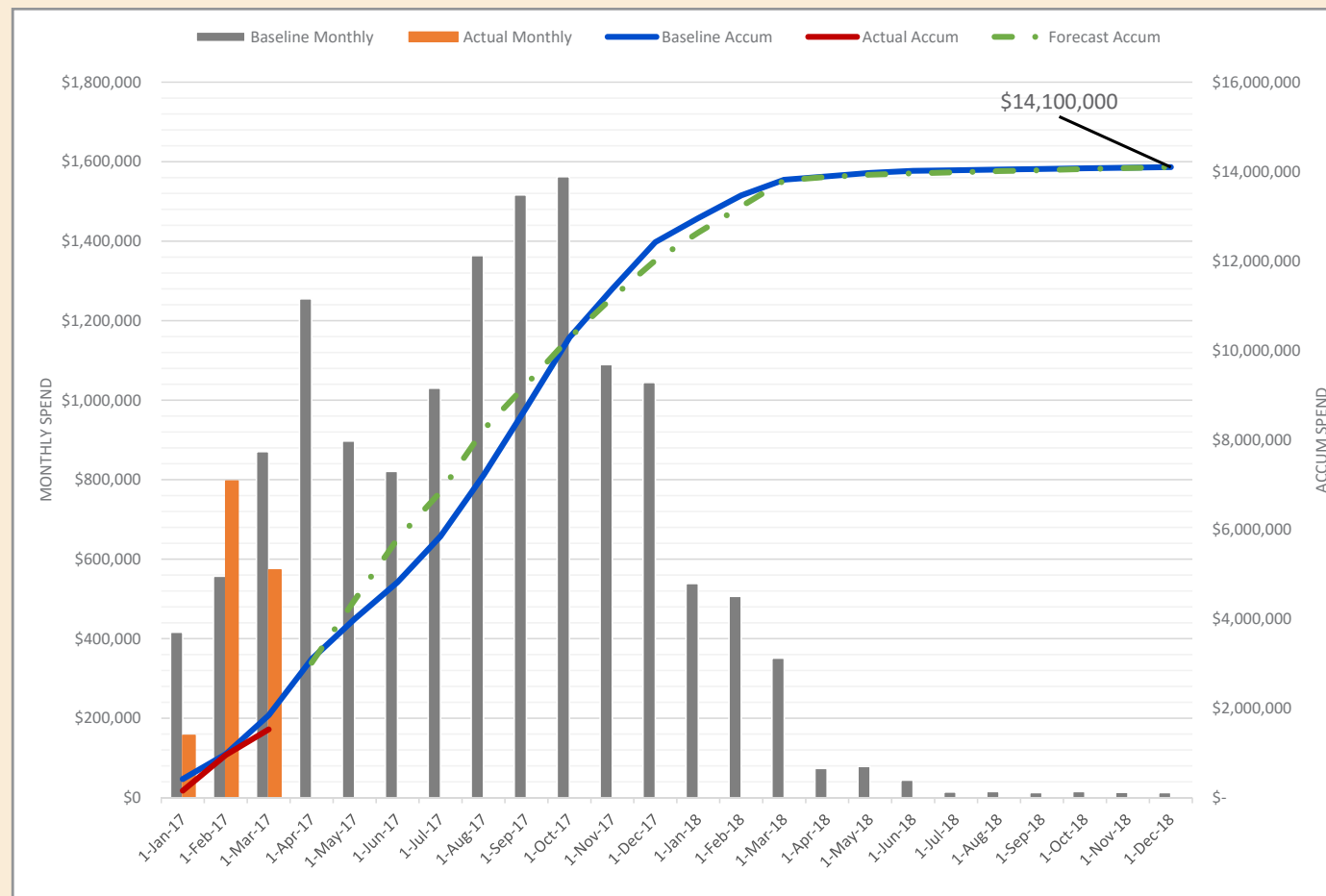




Program Overview

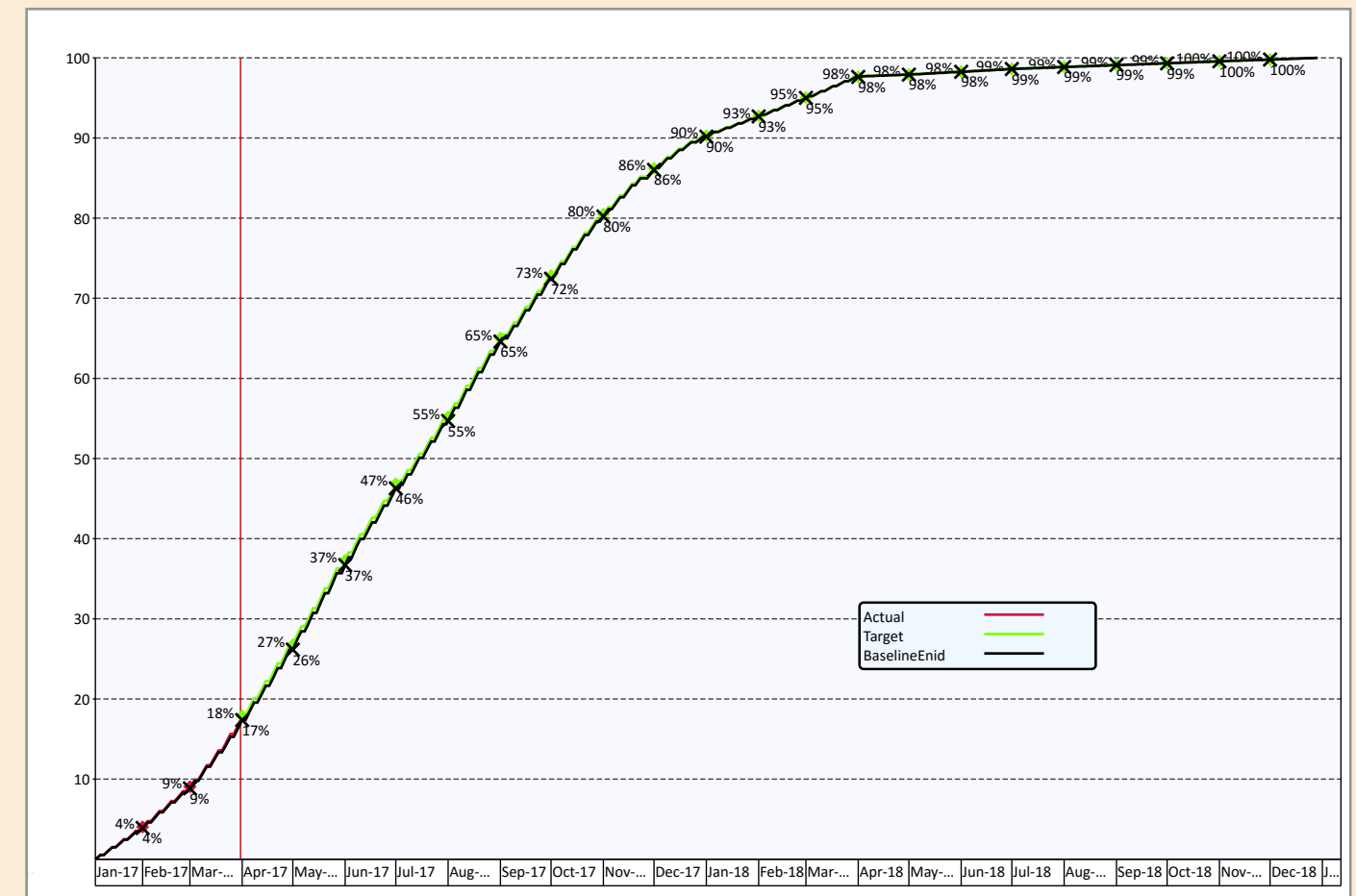
Program Finance - Phase 2

Kaw Lake Water Supply Program CashFlow



Program Schedule - Phase 2

Kaw Lake Water Supply Program - March 2017





Program Administration

Scope of Services

Garver is providing project administration controls initiation through Phase 2, including reporting in all aspects of the program management, scheduling and budget status updates, coordination of regulatory and funding agencies, as well as stakeholders and public meetings. Primary deliverables include a Design Consultants Standards Manual and a Program Strategy Manual.

Project Update

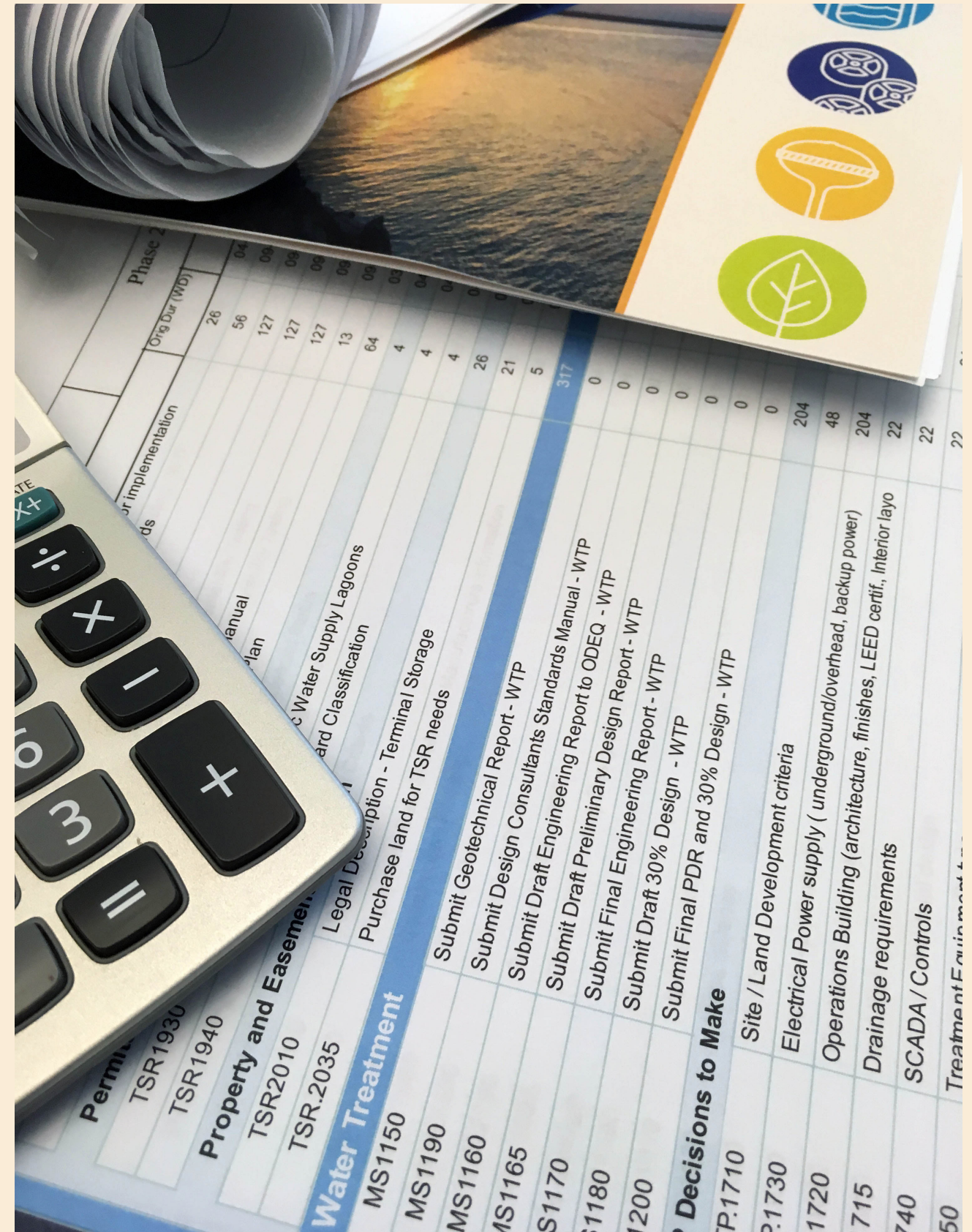
The Program Management Team is beginning to develop work on all of the items in the scope of services. Team assignments have been made and reporting, schedule detail activities, and documents and methods are being established for strategic execution of the project administration.

Completed

- Schedule baseline activities detailed for each area by the project controls team
- Internal team coordination meetings held for coordination between Program Management and team leaders

Future Activities

- Evaluation of City standards and specification for implementation into the Design Consultants Standards Manual
- Organization and planning activity on the Program Strategy Manual
- Schedule and cost updating of the Master Project Schedule





Intake and Pump Stations

Scope of Services

The scope of services includes surveying, geotechnical investigations, preliminary (30% Complete) design, investigation of property acquisition and development of design consultant standards for a new raw water intake and pumping station located on Kaw Lake at Intake Site No. 2 and an intermediate booster pump station as identified in Phase 1 of the project.

The intake is expected to include a shaft and micro tunnel with vertical turbine pumps in a parallel configuration with a design capacity to meet the targets identified during Phase 1 of the Program. The intermediate booster pump station is expected to consist of parallel horizontal split case pumps housed in an at-grade structure. The intermediate booster pump station is also expected to include approximately 5 million gallons of stored raw water within ground storage tanks.

Project Update

A meeting with the U.S. Army Corps of Engineers was held on February 28, 2017 at the Tulsa District Office to discuss the Program. The Corps of Engineers will require a cultural resources survey at the intake site prior to granting permission to perform any geotechnical investigation borings.

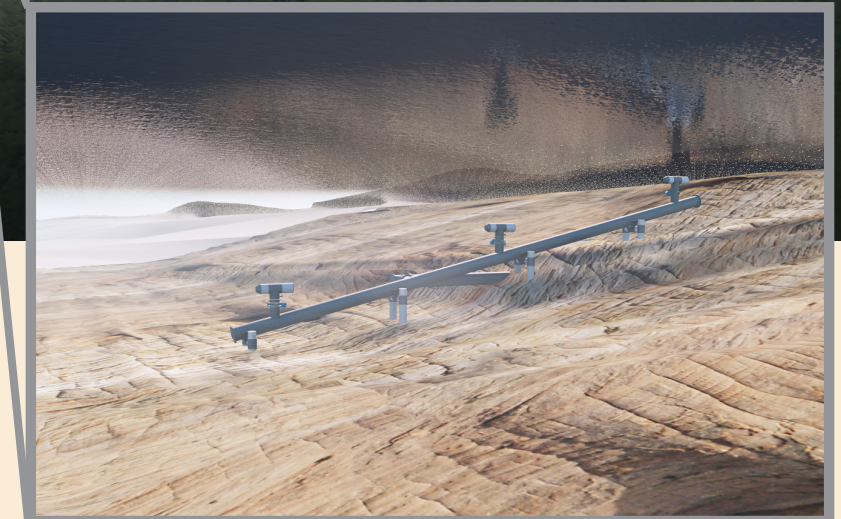
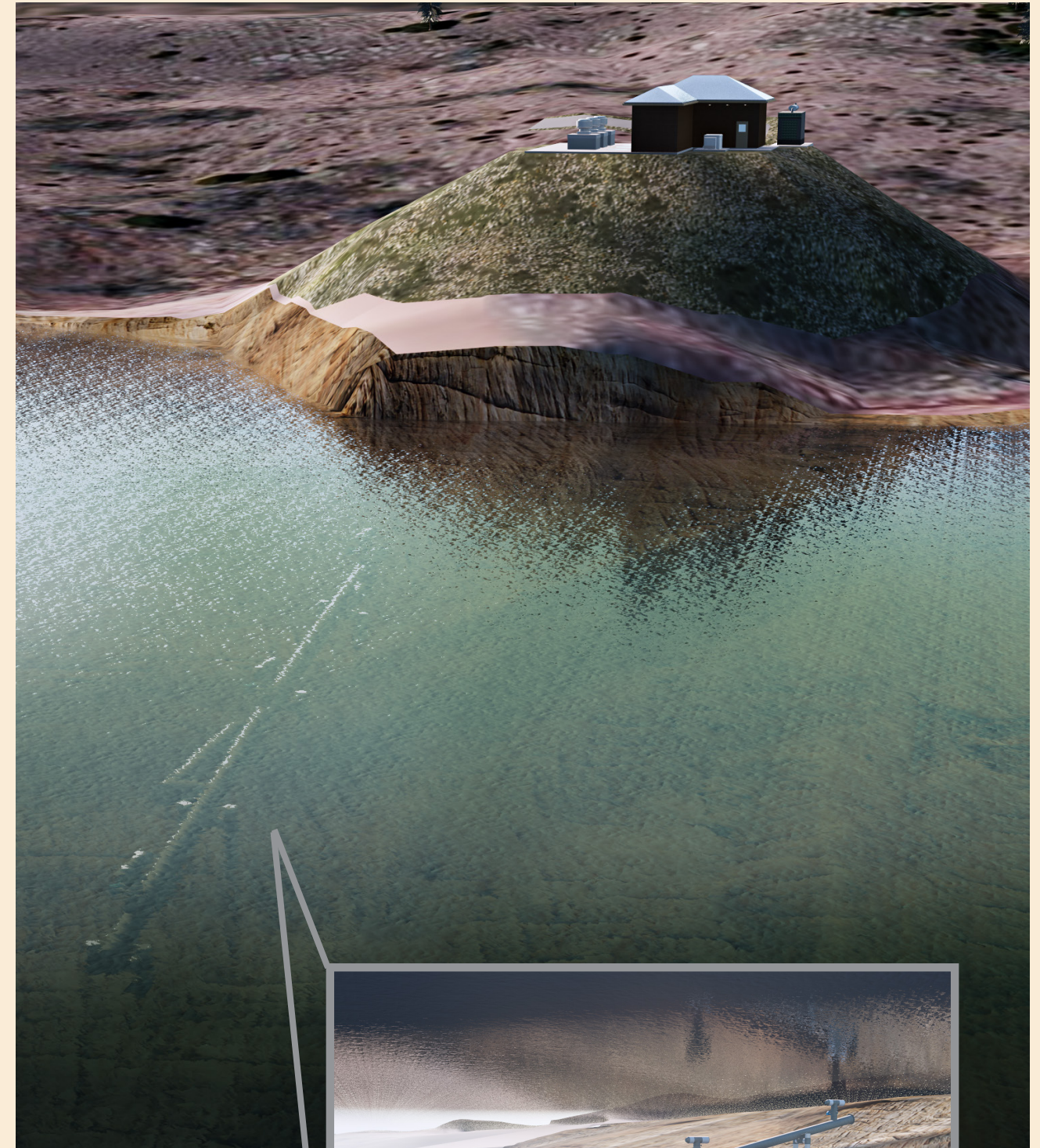
The team continues to work on the draft Preliminary Design Report that establishes the pumping design criteria, design concepts, and operations strategies for the intake and intermediate booster pump station. The draft report also includes a transient hydraulic analysis of the pipeline, process and instrumentation diagrams, and equipment data sheets.

Completed

- Acceptance from the City on the proposed equipment manufacturers list that will be used for Basis of Design
- All field work for topographic and hydrographic survey of the intake site and access roads
- Survey data processed and delivered to intake team
- First draft of process and instrumentation diagrams for intake pump station, intermediate booster pump station and ground storage tank
- Coordination with local power company (Kay Electric) for preliminary design of power supply to intake pump station
- Set up of transient hydraulic model

Future Activities

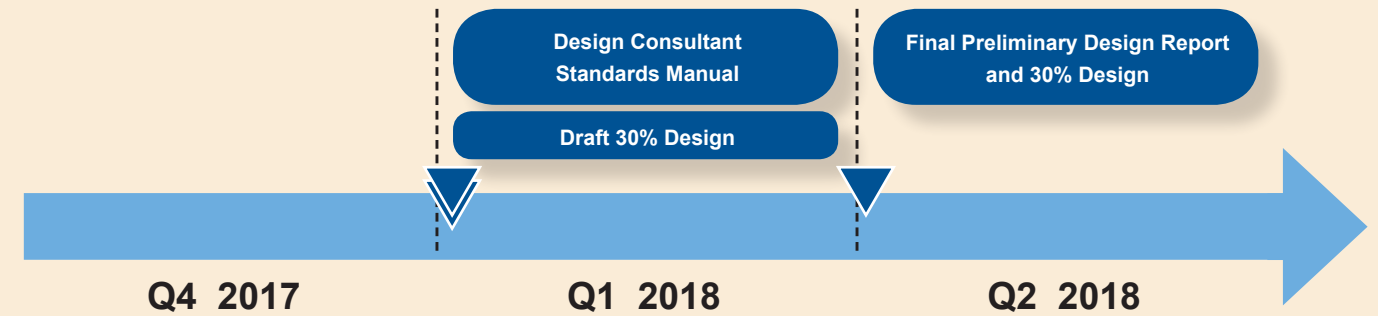
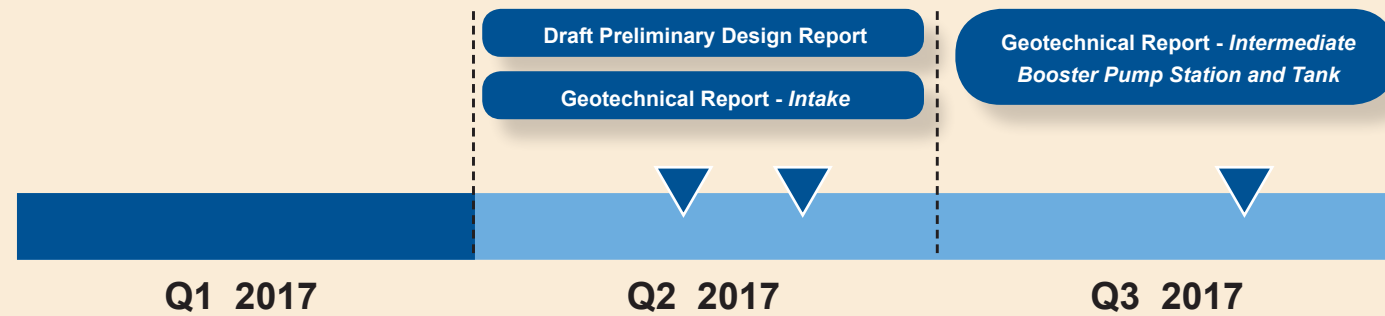
- Perform environmental cultural survey at intake site
- Coordinate with geotech for land and marine borings at intake site
- Transient hydraulic model analysis
- Preliminary work on 30% design



Above and Right: 3D rendering of intake pump station and underwater piping at Kaw Lake

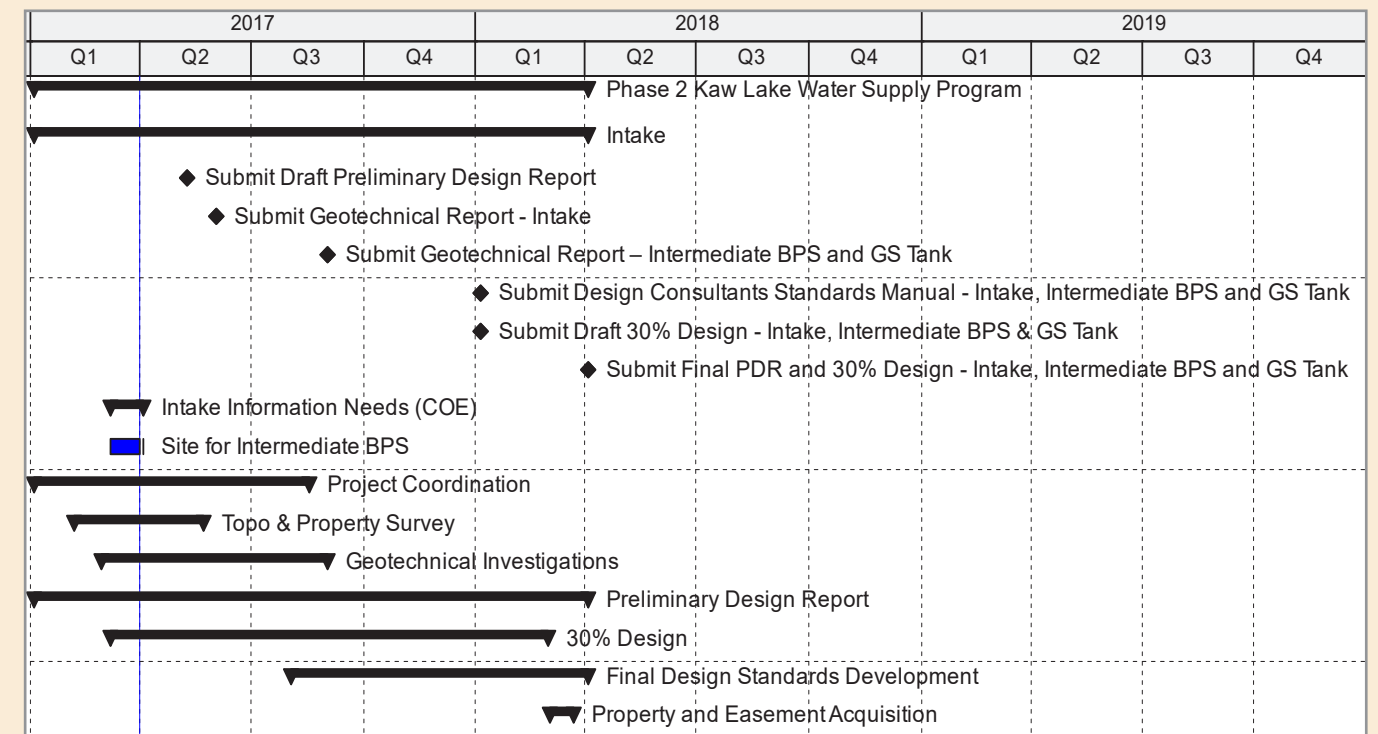


Project Milestones



Project Schedule

Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake Water Supply Program		317	02-Apr-18
Intake		317	02-Apr-18
MS1030	Submit Draft Preliminary Design Report	0	09-May-17
MS1010	Submit Geotechnical Report - Intake	0	02-Jun-17
MS1020	Submit Geotechnical Report - Intermediate BPS and GS Tank	0	01-Sep-17
MS1040	Submit Design Consultants Standards Manual - Intake, Intermediate BPS and GS Tank	0	04-Jan-18
MS1035	Submit Draft 30% Design - Intake, Intermediate BPS & GS Tank	0	04-Jan-18
MS1050	Submit Final PDR and 30% Design - Intake, Intermediate BPS and GS Tank	0	02-Apr-18*
Intake Information Needs (COE)		21	04-Apr-17
PIP.1840	Site for Intermediate BPS	21	04-Apr-17
Project Coordination		160	17-Aug-17
Topo & Property Survey		61	23-May-17
Geotechnical Investigations		132	01-Sep-17
Preliminary Design Report		317	02-Apr-18
30% Design		250	01-Mar-18
Final Design Standards Development		169	02-Apr-18
Property and Easement Acquisition		15	22-Mar-18





Pipeline

Scope of Services

The scope of services includes surveying, geotechnical, alignment analysis, preliminary (30% complete) design, investigation of future property acquisition and development of design consultant standards for a new raw water pipeline from Kaw Lake at Intake Site No. 2 to a new Water Treatment Plant as identified in Phase 1 of the project.

The pipeline will consist of approximately 70 miles of pipe along the direct corridor with a design capacity to meet the targets identified during Phase 1 of the Program. This task generally consists of providing final pipeline alignment selection within the Direct Corridor and preparation of aerial background plans.

Project Update

Developed preliminary pipeline route alternatives analysis criteria and presented it to the City for review and consideration. The team is waiting on property owner permission to begin field reviews. Coordinating construction site visits of similar type pipeline projects for the City to tour, but this is a low priority as the City is focusing efforts on other components of the program. Began developing pipeline design criteria for the preliminary design report.

Completed

- Desktop review of preliminary alignment alternatives
- Initial contact with major utility owners along proposed route
- Hydraulic analysis of pressure classes associated with pipe materials and comparison of cost impacts
- Site visit of pipe manufacturer plant

Future Activities

- Evaluation of route alternatives based on analysis criteria
- Coordination of geotechnical investigation needs along route
- Continued evaluation of pipe material types
- Further coordination of crossings with utility companies, city, county and state agencies
- Field reviews along proposed alignment



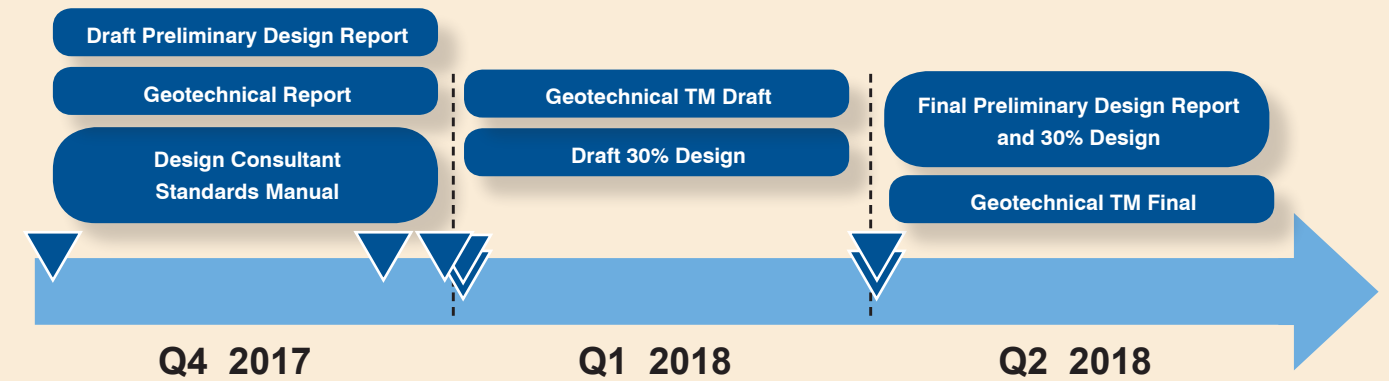
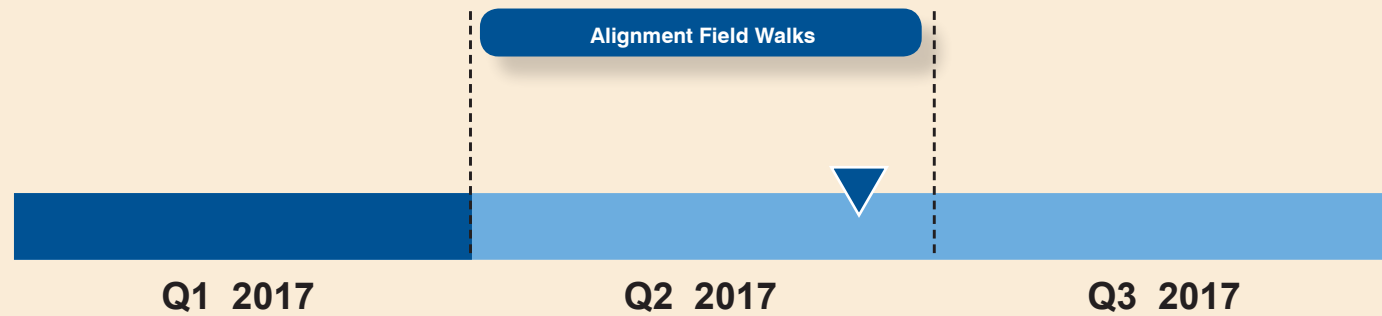
Above: Installing 60-inch casing



Right: Installing 48-inch pipe by bore and jack

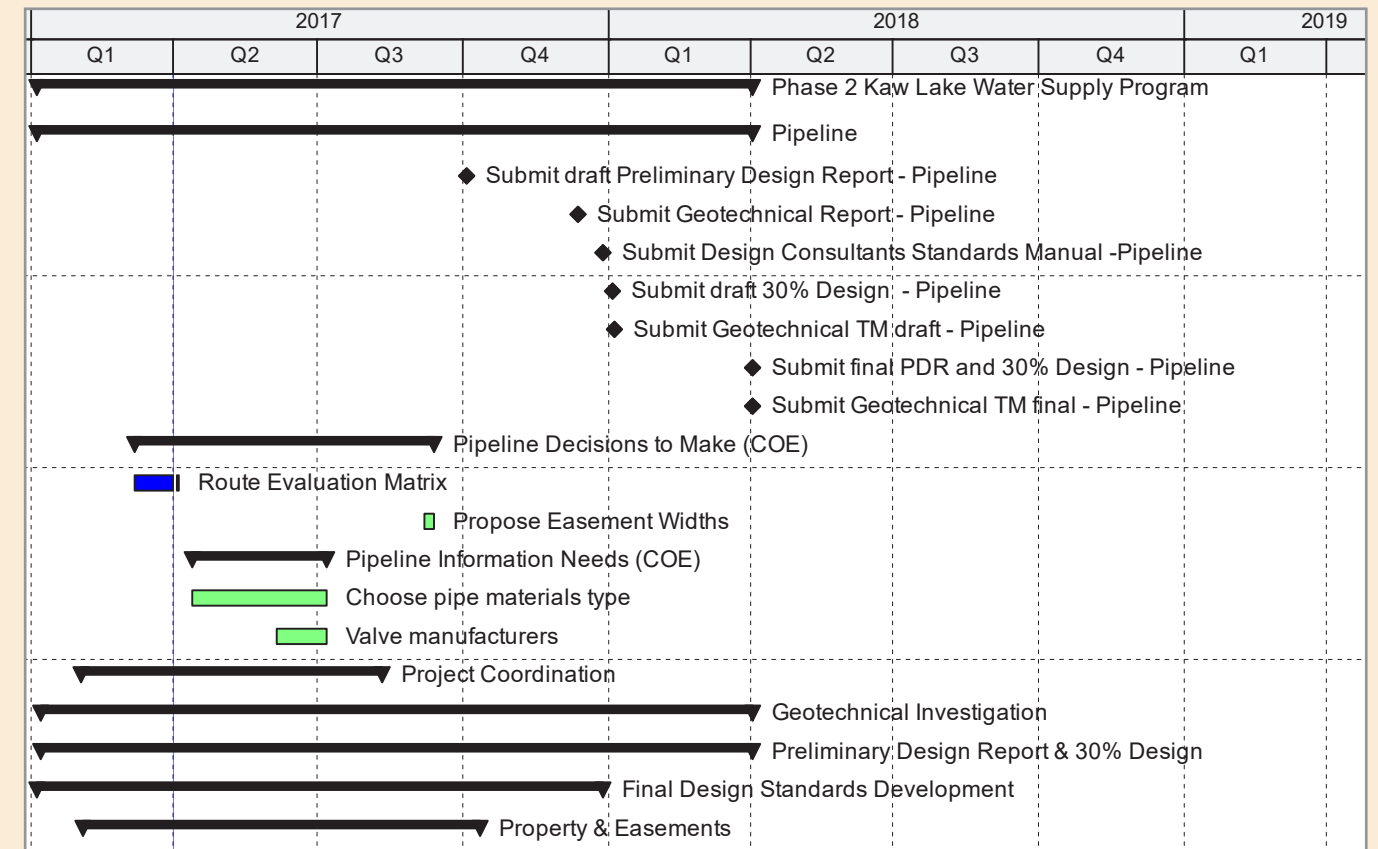


Project Milestones



Project Schedule

Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake Water Supply Program		317	02-Apr-18
Pipeline		317	02-Apr-18
MS1070	Submit draft Preliminary Design Report - Pipeline	0	03-Oct-17
MS1060	Submit Geotechnical Report - Pipeline	0	13-Dec-17
MS1085	Submit Design Consultants Standards Manual -Pipeline	0	28-Dec-17
MS1080	Submit draft 30% Design - Pipeline	0	04-Jan-18
MS1075	Submit Geotechnical TM draft - Pipeline	0	04-Jan-18
MS1090	Submit final PDR and 30% Design - Pipeline	0	02-Apr-18
MS1095	Submit Geotechnical TM final - Pipeline	0	02-Apr-18
Pipeline Decisions to Make (COE)		133	12-Sep-17
PIP.1870	Route Evaluation Matrix	10	03-Apr-17
PIP.1850	Propose Easement Widths	5	12-Sep-17
Pipeline Information Needs (COE)		60	06-Jul-17
PIP.1280	Choose pipe materials type	60	06-Jul-17
PIP.1300	Valve manufacturers	23	06-Jul-17
Project Coordination		135	10-Aug-17
Geotechnical Investigation		315	02-Apr-18
Preliminary Design Report & 30% Design		315	02-Apr-18
Final Design Standards Development		251	28-Dec-17
Property & Easements		177	11-Oct-17





Terminal Storage

Scope of Services

The scope of services includes surveying, geotechnical, preliminary (30% complete) design, investigation of property acquisition and development of design consultant standards for a new raw water terminal storage in two separate locations: one for emergency storage and one for equalization storage as identified in Phase 1 of the project.

It is understood that the location for the emergency storage has yet to be determined and will require continued input and coordination from City staff. It is assumed that the emergency storage will be located up to 1 mile from the raw water pipeline selected alignment. The equalization storage will be constructed adjacent to the water treatment plant on the same site.

Project Update

Conceptual layouts of the equalization storage basin continues to evolve as new concepts are explored. While the general area of the emergency storage basin has been established, the final location has not been determined. The survey team has completed property boundary survey for the water treatment site, and initial site layout has commenced. The terminal storage team continues to coordinate with the water treatment plant and distribution staff on the conceptual site design, stormwater drainage, process flow, and drying beds. The terminal storage team is also coordinating with environmental on the location and impact of pre-emergent wetland in the possible footprint of the terminal storage.

Completed

- Design flows
- Determination of potential permit requirement for mid-level berm construction

Future Activities

- Determination of final location of terminal storage
- Draft preliminary design report
- Terminal storage lining and erosion control selection
- Stormwater drainage
- Preliminary site layouts with grading
- Site access
- Process and pipeline layout for site



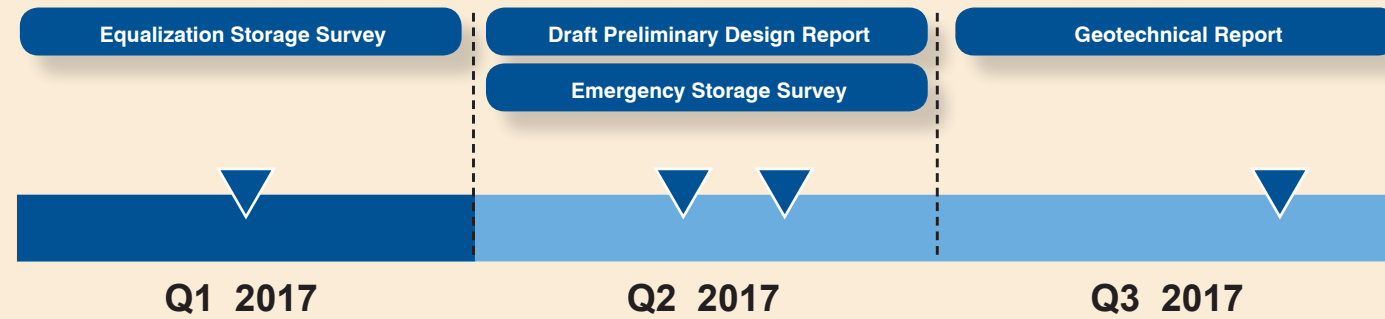
Above: Rendering of EQ terminal storage reservoir at water treatment plant



Right: Example terminal storage reservoir under construction

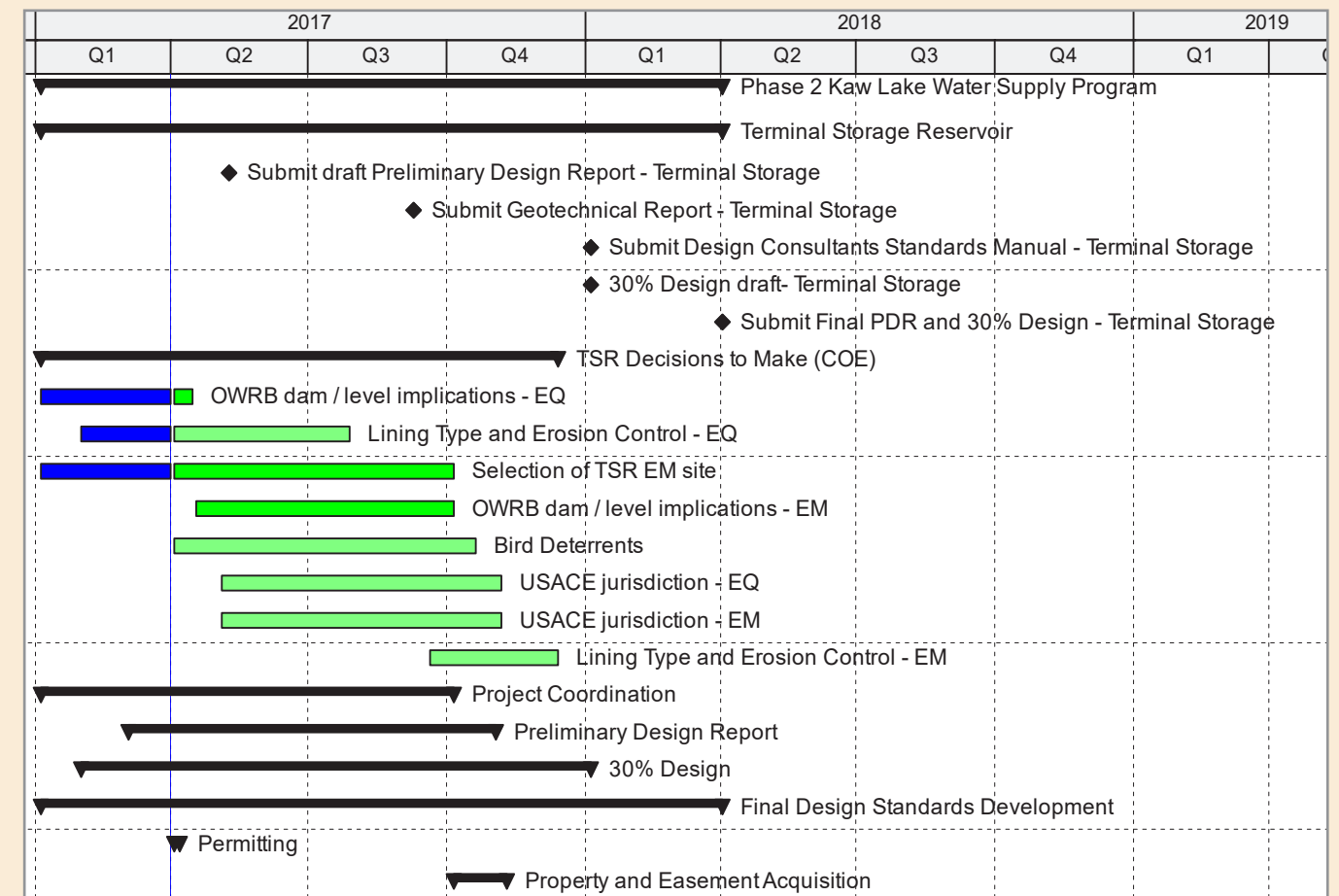


Project Milestones



Project Schedule

Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake Water Supply Program		335	02-Apr-18
Terminal Storage Reservoir		335	02-Apr-18
MS1100	Submit draft Preliminary Design Report - Terminal Storage	0	09-May-17
MS1110	Submit Geotechnical Report - Terminal Storage	0	08-Sep-17
MS1120	Submit Design Consultants Standards Manual - Terminal Storage	0	04-Jan-18
MS1130	30% Design draft- Terminal Storage	0	04-Jan-18
MS1140	Submit Final PDR and 30% Design - Terminal Storage	0	02-Apr-18
TSR Decisions to Make (COE)		335	14-Dec-17
TSR.2045	OWRB dam / level implications - EQ	73	14-Apr-17
TSR.2030	Lining Type and Erosion Control - EQ	127	28-Jul-17
TSR.2020	Selection of TSR EM site	194	05-Oct-17
TSR.2040	OWRB dam / level implications - EM	121	05-Oct-17
TSR.2046	Bird Deterrents	142	20-Oct-17
TSR.2050	USACE jurisdiction - EQ	130	06-Nov-17
TSR.2055	USACE jurisdiction - EM	130	06-Nov-17
TSR.2032	Lining Type and Erosion Control - EM	60	14-Dec-17
Project Coordination		194	05-Oct-17
Preliminary Design Report		172	02-Nov-17
30% Design		236	04-Jan-18
Final Design Standards Development		317	02-Apr-18
Permitting		4	06-Apr-17
Property and Easement Acquisition		26	10-Nov-17





Water Treatment Plant

Scope of Services

The scope of services includes surveying, geotechnical, preliminary (30% complete) design, investigation of property acquisition, and development of design consultant standards for a new Enid Water Treatment Plant located adjacent to the City's current water treatment plant No. 2.

The planned capital improvements include construction of a new conventional water treatment plant with ozone and granular activated carbon facilities to meet capacity and treatment goals identified during Phase 1 of the Program.

Project Update

Presented detailed technical discussion for ozone and granular activated carbon at the March water treatment plant workshop. Continuing to develop site layout and hydraulic grade concepts. Presented program to the Oklahoma Department of Environmental Quality and solicited initial feedback of concepts related to the proposed water treatment plant design. Beginning to develop the Engineering Report, including the baseline development and existing system assessment. Performing initial work on draft Preliminary Design Report document. Preliminary process and instrumentation diagrams and facility layouts are underway.

Completed

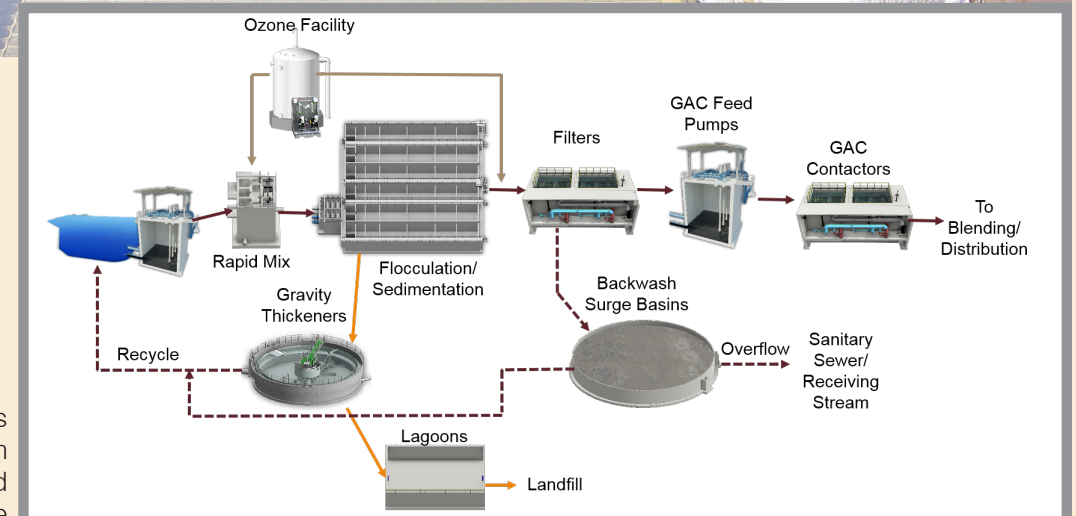
- Round one of bench scale treatability testing
- Preliminary process scheme and design criteria
- Preliminary hydraulic profile
- Preliminary process design criteria for Ozone and Granular Activated Carbon
- Preliminary process layouts
- Draft site plan alternatives
- Evaluation of existing city standards and specifications
- Oklahoma Department of Environmental Quality workshop to introduce program

Future Activities

- Water treatment plant workshop with focus on rapid mix, flocculation, sedimentation, and filtration
- Development of draft Pre-Design Report deliverables for Ozone and Granular Activated Carbon
- Water treatment plant site visit
- Round Two of bench scale treatability testing



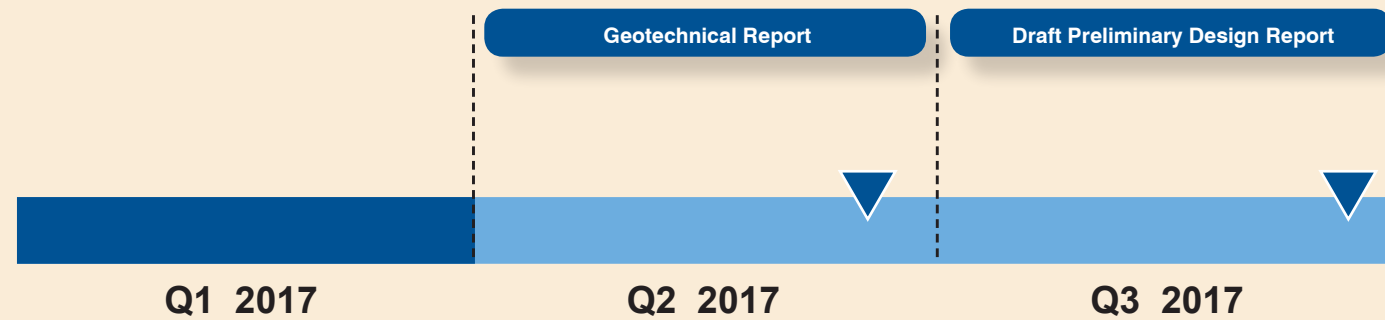
Above: Water treatment plant sedimentation basin



Right: Process flow diagram for selected alternative

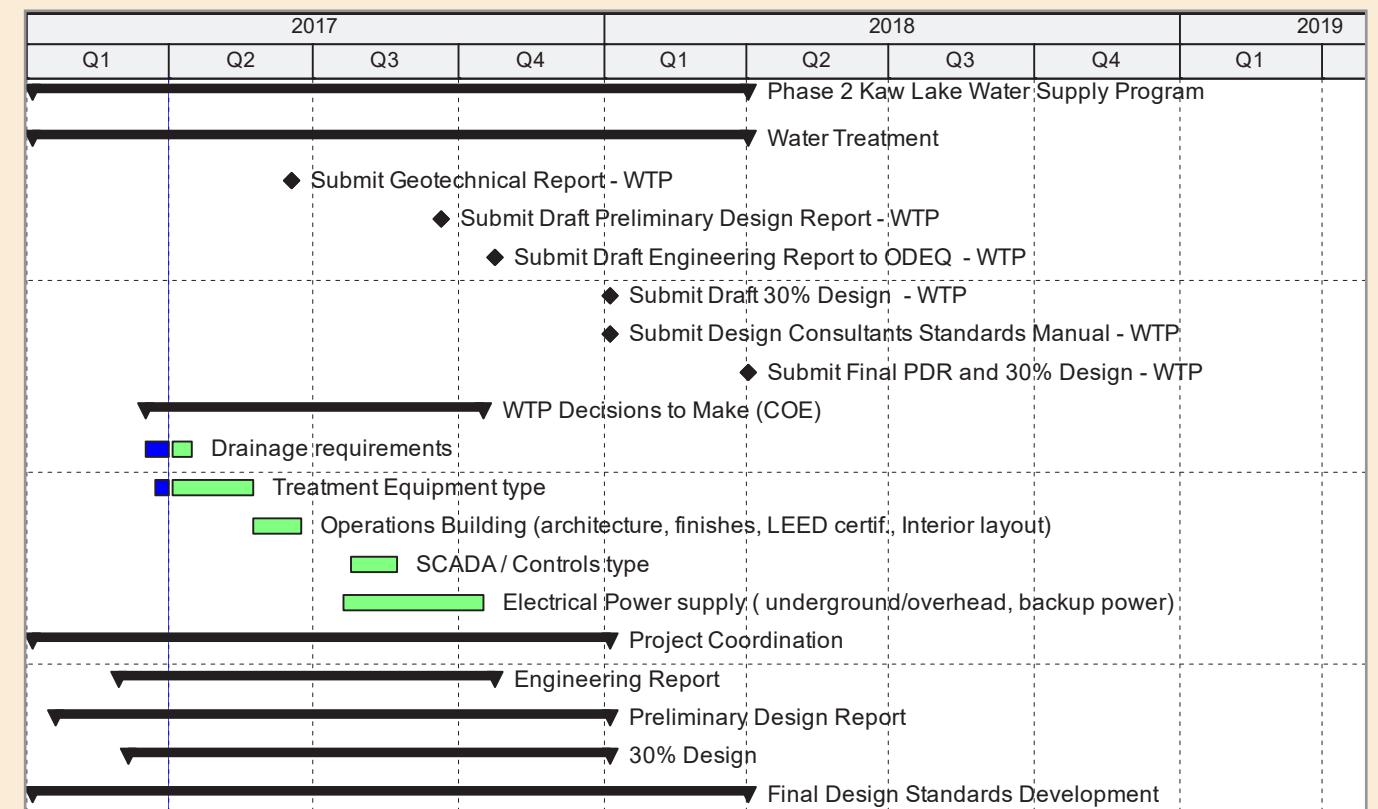


Project Milestones



Project Schedule

Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake Water Supply Program		317	02-Apr-18
Water Treatment		317	02-Apr-18
MS1150	Submit Geotechnical Report - WTP	0	16-Jun-17
MS1165	Submit Draft Preliminary Design Report - WTP	0	20-Sep-17
MS1160	Submit Draft Engineering Report to ODEQ - WTP	0	24-Oct-17
MS1180	Submit Draft 30% Design - WTP	0	04-Jan-18
MS1190	Submit Design Consultants Standards Manual - WTP	0	04-Jan-18
MS1200	Submit Final PDR and 30% Design - WTP	0	02-Apr-18
WTP Decisions to Make (COE)		150	16-Oct-17
WTP.1715	Drainage requirements	22	14-Apr-17
WTP.1750	Treatment Equipment type	44	23-May-17
WTP.1720	Operations Building (architecture, finishes, LEED certif., Interior layout)	22	23-Jun-17
WTP.1740	SCADA/ Controls type	22	23-Aug-17
WTP.1730	Electrical Power supply (underground/overhead, backup power)	62	16-Oct-17
Project Coordination		255	04-Jan-18
Engineering Report		169	24-Oct-17
Preliminary Design Report		245	04-Jan-18
30% Design		212	04-Jan-18
Final Design Standards Development		317	02-Apr-18





Distribution

Scope of Services

Generally, the scope of services includes surveying, geotechnical, preliminary (30% complete) design, investigation of property acquisition and development of design consultant standards for new distribution infrastructure (pumping, storage, and piping) as identified in Phase 1 of the project.

The pumping improvements will include the construction of a new high service pump station adjacent to the water treatment plant capable of conveying flow to both pressure planes and the decommissioning of the existing high services pump stations. The storage improvements will consist of adding a new 8 million gallon ground storage tank adjacent to the new high service pump station. The piping improvements will include the piping necessary to blend the groundwater supply with the treated surface water prior to the high services pump station, as well as the piping necessary to convey water to the east pressure plane.

Project Update

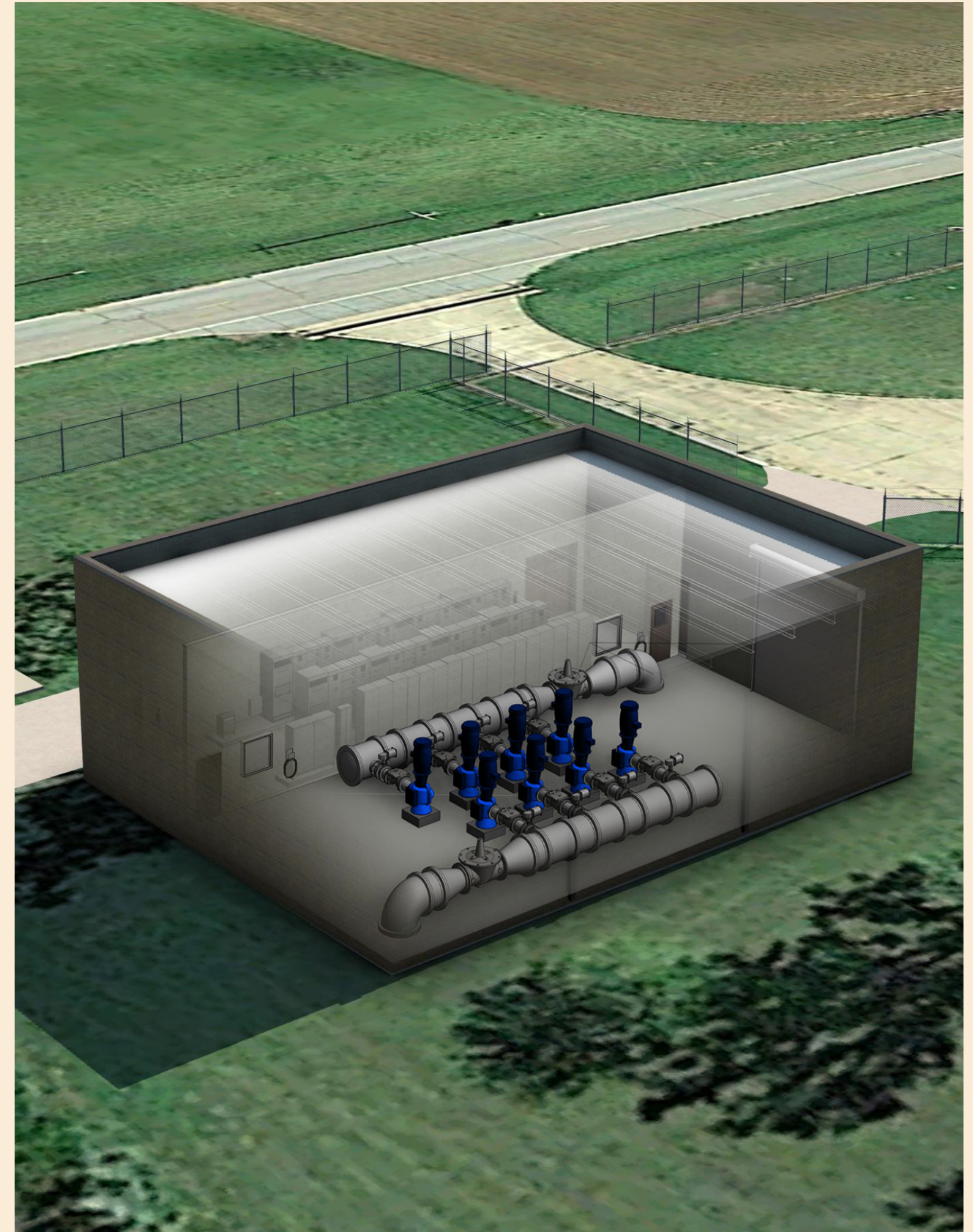
Completed compilation of Chestnut corridor information to prepare for field investigations. Started evaluating historical demand data and SCADA system information to support distribution system optimization. Distribution system GIS data was used to update the distribution system hydraulic model, and the groundwater conveyance GIS data was evaluated to prepare for constructing a groundwater supply hydraulic model. Preliminary 30% design work continues on design criteria, high service pump station and clearwell site layout, process and instrumentation diagrams, facility electrical loads, and collection of equipment manufacturer's data.

Completed

- Updated pipe network in distribution system hydraulic model
- Compiled information for transmission line field investigation
- Preliminary pump sizing and selection

Future Activities

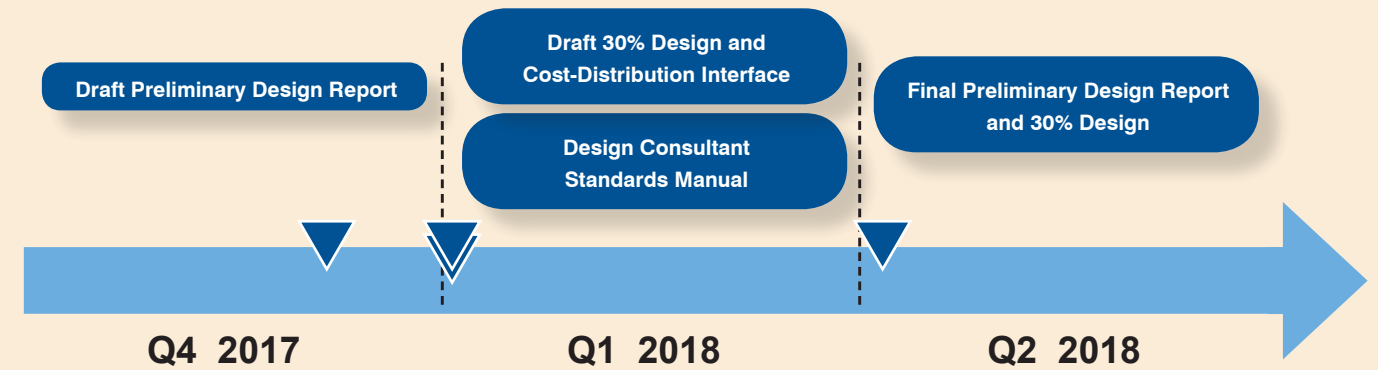
- Transmission line field investigation
- Transmission line pipe material determination
- Assess demands and future growth
- Evaluation of max day vs. peak hour pumping/storage
- Optimize transmission line diameter
- Continue developing site layout in conjunction with water treatment plant team
- Disinfection/storage/blending isolation and redundancy scheme
- Develop preliminary layout of high service pump station
- Develop process and instrumentation diagrams
- Develop electrical one-line diagram
- Develop operational control scheme
- Continue Preliminary Design Report draft development of design criteria and design concepts
- Develop distribution system assessment / design criteria



Above: Conceptual layout of high-service (distribution) pump station

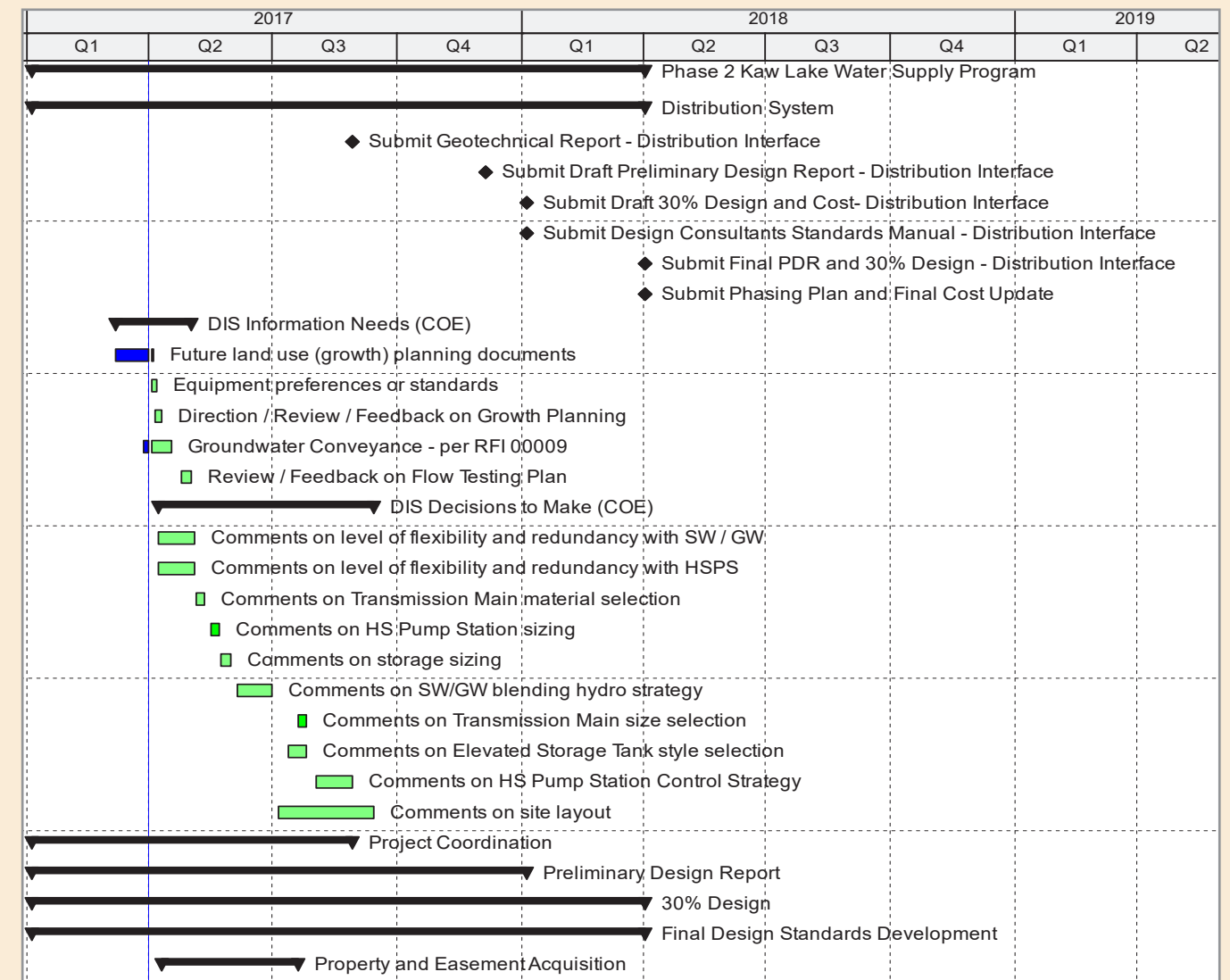


Project Milestones



Project Schedule

Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake Water Supply Program		317	02-Apr-18
Distribution System		317	02-Apr-18
MS1210	Submit Geotechnical Report - Distribution Interface	0	28-Aug-17
MS1220	Submit Draft Preliminary Design Report - Distribution Interface	0	05-Dec-17
MS1230	Submit Draft 30% Design and Cost- Distribution Interface	0	04-Jan-18
MS1240	Submit Design Consultants Standards Manual - Distribution Interface	0	04-Jan-18
MS1250	Submit Final PDR and 30% Design - Distribution Interface	0	02-Apr-18
MS1255	Submit Phasing Plan and Final Cost Update	0	02-Apr-18
DIS Information Needs (COE)		40	01-May-17
DIS.2085	Future land use (growth) planning documents	10	04-Apr-17
DIS.2090	Equipment preferences or standards	4	06-Apr-17
DIS.2100	Direction / Review / Feedback on Growth Planning	4	10-Apr-17
DIS.2078	Groundwater Conveyance - per RFI 00009	15	17-Apr-17
DIS.2105	Review / Feedback on Flow Testing Plan	5	01-May-17
DIS Decisions to Make (COE)		111	13-Sep-17
DIS.2150	Comments on level of flexibility and redundancy with SW / GW	20	04-May-17
DIS.1051	Comments on level of flexibility and redundancy with HSPS	20	04-May-17
DIS.2156	Comments on Transmission Main material selection	5	11-May-17
DIS.2130	Comments on HS Pump Station sizing	5	22-May-17
DIS.2146	Comments on storage sizing	5	30-May-17
DIS.2154	Comments on SW/GW blending hydro strategy	20	30-Jun-17
DIS.2144	Comments on Transmission Main size selection	5	26-Jul-17
DIS.2157	Comments on Elevated Storage Tank style selection	10	26-Jul-17
DIS.2160	Comments on HS Pump Station Control Strategy	20	29-Aug-17
DIS.2140	Comments on site layout	50	13-Sep-17
Project Coordination		167	28-Aug-17
Preliminary Design Report		255	04-Jan-18
30% Design		317	02-Apr-18
Final Design Standards Development		317	02-Apr-18
Property and Easement Acquisition		72	20-Jul-17





Environmental

Scope of Services

This scope of work includes activities to support document preparation as required of the National Environmental Policy Act (NEPA) (42 U.S.C. 4321 et seq.) in accordance with the procedures set forth in Council on Environmental Quality Regulations Implementing the Procedural Provision of NEPA (40 CFR 1500-1508) and in the U.S. Army Corps of Engineers (USACE) Procedures for Implementing NEPA (33 CFR 230). The U.S. Army Corps of Engineers, Tulsa District, will serve as the lead federal agency for the project.

It is anticipated that the NEPA Class of Action for this Program will be an Environmental Assessment and will analyze the impacts of a No Build and one Build Alternative (Proposed Action) for each of the project's infrastructure components [intake, pipeline, terminal storage reservoir (emergency and equalization), treatment plant, and distribution system].

Project Update

Meeting with the U.S. Army Corps of Engineers resulted in the need for a cultural resources survey at the intake site prior to geotechnical testing. A cultural resources sub kickoff meeting was held March 29, 2017 and the intake site will be first priority. Biological studies at the intake site are complete.

The team received approval for permission letters to property owners and agencies on March 14, 2017. Letters were mailed on March 22, 2017. The team is developing field procedure documentation based on discussions with the U.S. Army Corps of Engineers.

Public meetings have been scheduled for April 11 and 13, 2017. Public meeting presentation, displays, and handout are in development.

Meeting with the Osage Nation scheduled for April 28, 2017. Meeting date with the Ponca Tribe is to be determined. Parcel owner information from the Bureau of Indian Affairs was received March 30, 2017.

Completed

- Intake biological studies
- Preparation and mailing of property owner notification and agency solicitation letters
- Confirmation of public involvement meetings for April 11 and 13, 2017

Future Activities

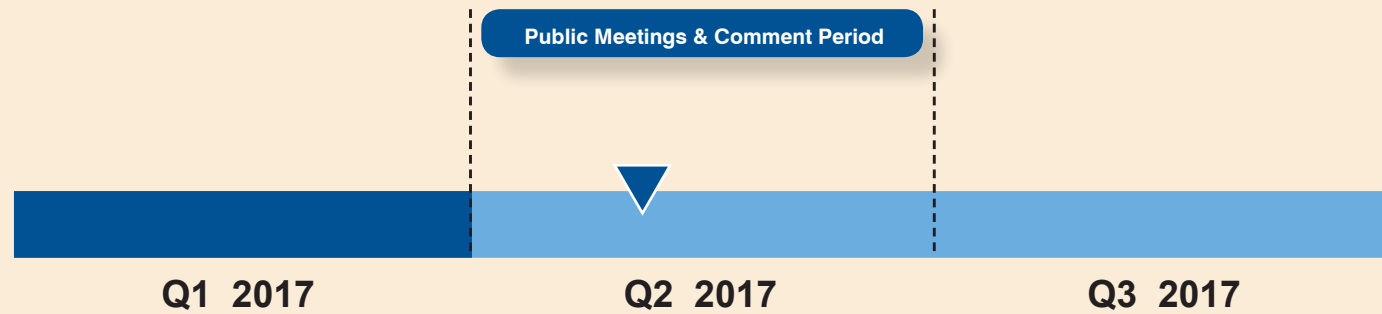
- Field work for all areas
- Public meetings (April 11 and 13, 2017)
- Tribal meetings with Osage Nation, Ponca Tribe
- Compile list of tribal owners and send letters for permission to access property



Above: Kaw Lake shoreline

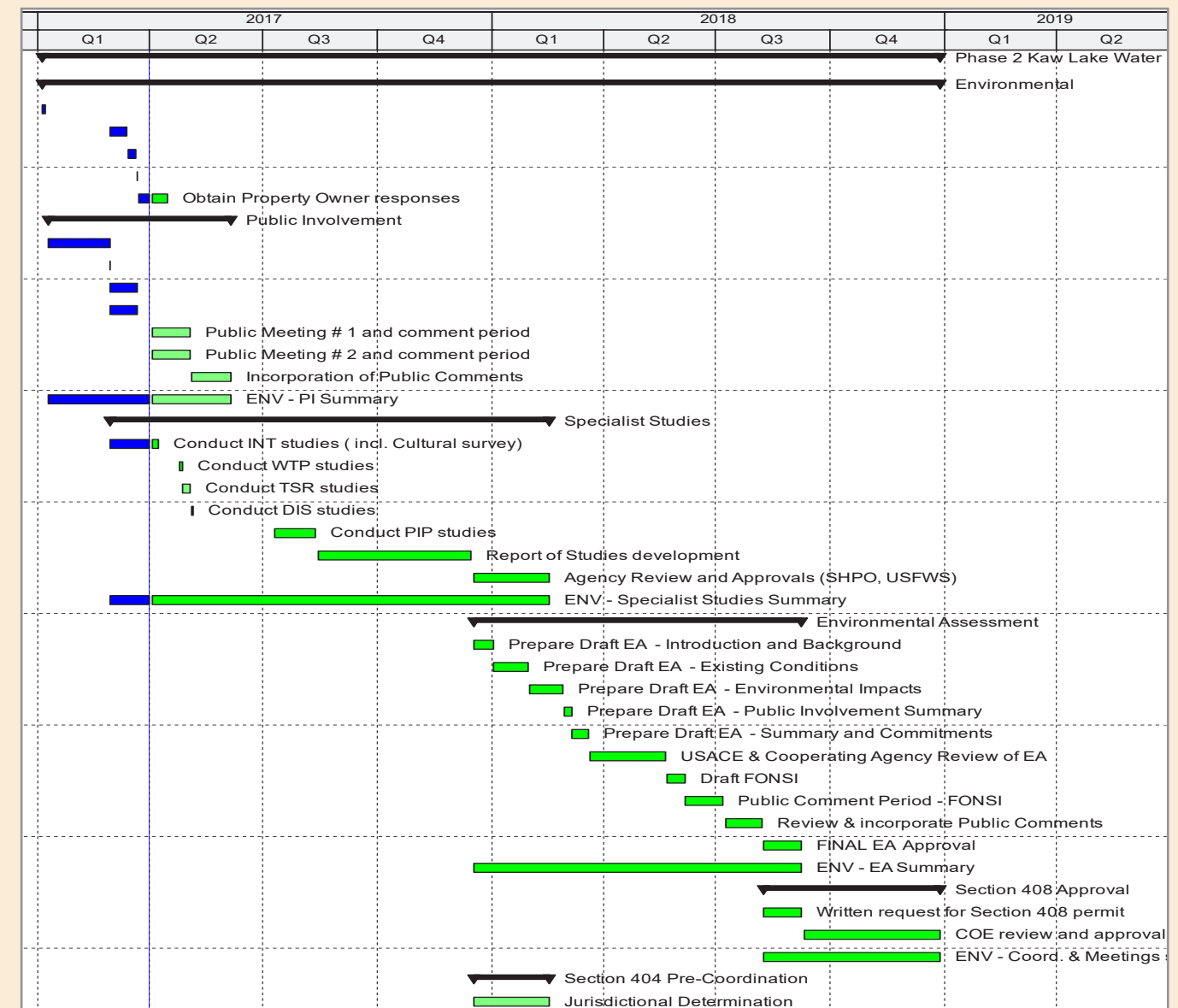


Project Milestones



Project Schedule

Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake Water Supply Program		505	28-Dec-18
Environmental		505	28-Dec-18
ENV.1010	NEPA Start	3	06-Jan-17 A
ENV.1060	Develop Property Owner Permissions letters	10	13-Mar-17 A
ENV.1061	APPROVALS from PM- Property Owner permission letter	5	20-Mar-17 A
ENV.1062	Distribute Property Owner permission letters	10	22-Mar-17 A
ENV.1063	Obtain Property Owner responses	16	14-Apr-17
Public Involvement		105	05-Jun-17
ENV.1020	Preparation for Public Meetings	36	27-Feb-17 A
ENV.1025	Pre-Public meeting with USACE	0	28-Feb-17 A
ENV.1030	Agency Solicitation and Tribal Consultation	25	22-Mar-17 A
ENV.1040	Notification for Public Meetings	25	22-Mar-17 A
ENV.1050	Public Meeting # 1 and comment period	23	03-May-17
ENV.1055	Public Meeting # 2 and comment period	23	03-May-17
ENV.1070	Incorporation of Public Comments	22	05-Jun-17
ENV. WBSS3	ENV - PI Summary	105	05-Jun-17
Specialist Studies		247	16-Feb-18
ENV.1090	Conduct INT studies (incl. Cultural survey)	38	07-Apr-17
ENV.1091	Conduct WTP studies	3	26-Apr-17
ENV.1092	Conduct TSR studies	5	03-May-17
ENV.1093	Conduct DIS studies	2	05-May-17
ENV.1094	Conduct PIP studies	25	11-Aug-17
ENV.1095	Report of Studies development	90	15-Dec-17
ENV.1100	Agency Review and Approvals (SHPO, USFWS)	43	16-Feb-18
ENV.WBSS1	ENV - Specialist Studies Summary	247	16-Feb-18
Environmental Assessment		185	07-Sep-18
ENV.1120	Prepare Draft EA - Introduction and Background	10	02-Jan-18
ENV.1121	Prepare Draft EA - Existing Conditions	20	30-Jan-18
ENV.1122	Prepare Draft EA - Environmental Impacts	20	27-Feb-18
ENV.1123	Prepare Draft EA - Public Involvement Summary	5	06-Mar-18
ENV.1124	Prepare Draft EA - Summary and Commitments	10	20-Mar-18
ENV.1110	USACE & Cooperating Agency Review of EA	44	21-May-18
ENV.1080	Draft FONSI	10	05-Jun-18
ENV.1130	Public Comment Period - FONSI	22	06-Jul-18
ENV.1140	Review & incorporate Public Comments	22	07-Aug-18
ENV.1150	FINAL EA Approval	22	07-Sep-18
ENV.WBSS2	ENV - EA Summary	185	07-Sep-18
Section 408 Approval		99	28-Dec-18
ENV.2010	Written request for Section 408 permit	22	07-Sep-18
ENV.2015	COE review and approval	77	28-Dec-18
ENV.WBSS3	ENV - Coord. & Meetings summary	99	28-Dec-18
Section 404 Pre-Coordination		43	16-Feb-18
ENV.2060	Jurisdictional Determination	43	16-Feb-18





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