

2PE00000

PROGRESS REPORT

DUE: January 31 and July 31 of each year until termination of Consent Decree

PSW

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OHIO E.P.A.
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RECIPIENTS:

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STATE OF OHIO

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Paragraph 33 of the Lima Consent Decree "CD") states that, on January 31 and July 31 after the Effective Date and continuing on January 31 and July 31 of each year until termination of the CD, Lima shall submit to USEPA and Ohio EPA a progress report regarding the implementation of the requirements of this Decree in the previous calendar half year ("Progress Report").

The Lima Consent Decree (CD) became effective on January 13, 2015 such that this report will commence reporting as of that date. The lettered paragraphs below parallel the format of paragraph 33 of the CD. Initiatives that were underway on the effective date of the CD are reported under Section b of this report.

- a. A statement setting forth the deadlines and other terms that Lima is or was required to meet by this Consent Decree since the date of the last Progress Report, whether and to what extent Lima has met these requirements, and the reasons for any noncompliance:

Lima Progress Report:

- (1) January 31, 2018 --- Lima was required to submit a Revised Supplemental Environmental Project (SEP) Completion Report. Lima submitted the report on 1/30/18.

- b. A general description of the projects and activities conducted during the reporting period to comply with the requirements of this Decree, and a projection of work to be performed pursuant to this Consent Decree during the next reporting period. Notification to USEPA and Ohio EPA of any anticipated delay shall not, by itself, excuse the delay:

Lima Progress Report: Lima currently has the following contracts underway:

1. **Lima Wastewater Treatment Headworks Project** – Commenced construction on 7/1/15. Building and tank construction is complete.

Progress over the next six months is expected to include:

- Continued development of implementation strategy for seeding nitrification towers during dry weather to develop biomass suitable for wet weather treatment.
- Continued development of implementation strategy for employing primary tank 5-7, effluent pumping, and towers to treat wet weather flows.

- Continued development of PLC programming for seeding the nitrification tower and for control of wet weather treatment system.
 - Continued development of dry weather seeding strategy for towers and collection of data.
2. **CMOM Plan Development** – Lima submitted the revised plan to USEPA on 5/26/17. Lima received a request from USEPA on 3/20/18 to make a revision to the plan and resubmit for approval. Lima will be submitting the plan with the requested revision to USEPA in conjunction with this Consent Decree report on 7/31/18.
 3. **Asset Management** – Phase I Segmented Block Rehabilitation - Project was bid in January, 2018. Benchmark Construction was awarded the contract on 2/14/18 for \$3,250,828. Lima received the PTI from OEPA on 2/20/18. Project start has been delayed due to the need to relocate a natural gas line. Progress over the next six months is expected to include commencement of construction and completion of the project.
 4. **Supplemental Environmental Project (SEP) --- Project** is complete. Lima submitted a Revised SEP Completion Report on January 1/31/18. Lima received USEPA approval of the revised plan on 6/12/18. Lima is required to maintain the plantings in good condition through the life of the Consent Decree.

Progress over the next six months is expected to include:

- Conduct a controlled burn to control the growth of invasive species of grass and weeds.
5. **Simmon's Field CSO EQ Basin** -- The City is under contract with Stantec for the engineering and construction of this project. The project was re-bid on January 1/31/18 and 2/7/18. Bids were opened on 2/22/18. A PTI was issued on 2/27/18. The project was awarded to Peterson Construction and official groundbreaking for the project occurred on 5/4/18. Excavation activities to date include the removal of approximately 15 feet of soil within the footprint of the storage basin and installation of fencing and shoring to stabilize the site.

Progress over the next six months is expected to include:

- Continued excavation of soil down to bedrock, then blasting and excavating of the rock down to maximum tank depth.
 - Inspection of the three underground control structures and replacement as necessary of gates, gate stems, motors and operators.
 - Excavation for construction of the diversion structure.
 - See attached Gantt chart for more detailed activities.
- c. A summary of all material problems or potential problems encountered during the reporting period, and the actions taken to rectify the problems:

Lima Progress Report:

1. None noted.
- d. A summary of all material contacts with USEPA and Ohio EPA during the reporting period, including but not limited to the date deliverables under this Decree were sent to USEPA and Ohio EPA:

Lima Progress Report:

1. January 30, 2018 --- Lima submitted a revised SEP Plan to USEPA.
 2. February 20, 2018 --- Lima received PTI from OEPA for construction of a 10-inch sanitary sewer as part of the Segmented Block Sewer Rehabilitation Project.
 3. March 20, 2018 --- Lima received a request from USEPA on 3/20/18 to make revisions to the CMOM and CSO Operations plans and resubmit for approval.
 4. February 27, 2018 --- Lima received PTI from OEPA for construction of the CSO EQ Basin.
 5. March 22, 2018 --- Lima received notification from OEPA that the proposed new NPDES permit was posted for a 30-day public comment period.
 6. June 12, 2018 --- Lima received approval of the Revised SEP plan from USEPA, with conditions to maintain the plantings in good condition through the term of the Consent Decree.
 7. June 14, 2018 --- Lima submitted a SSO 5-Day Follow-up Report to OEPA concerning a force main break near the Cable Road Lift Station.
 8. June 22, 2018 --- Lima met with OEPA officials in Columbus to discuss unresolved issues with the proposed NPDES permit.
- e. A statement of any exceedances of NPDES permit limitations:

Lima Progress Report:

None noted.

- f. A summary of all CSO Discharges, SSOs, Bypasses, and other unpermitted discharges occurring within the reporting period including the actual or estimated frequency, duration and volume of each CSO Discharge, SSO, Bypass, and other unpermitted discharge:

Lima Progress Report:

1. Water-in-Basement (WIB) Events --- Lima recorded one WIB occurrence during the reporting period. This event occurred when a sanitary mainline surcharged after a rainfall event of 0.75." The City continues to work with homeowners that experience chronic flooding on a case -by-case basis through a WIB Program that raises the lateral to a higher elevation and separates the storm water from the sanitary. Lima completed 1 WIB project in this reporting period.
 2. SSO & CSO Monthly Reporting -- See attached Overflow Totals Report. These numbers are reported monthly to OEPA as part of the monthly Discharge Monitoring Report.
- g. A section containing a report on Lima's CMOM Program, as required by Paragraph 19.

CMOM PROGRAM REPORT
Paragraph 19

Summarize the activities performed during the previous six month period to implement the approved CMOM Program including, but not limited to:

- a. Describe Sewer System Cleaning, including:
 - (1) Provide the total unique miles of sewer cleaned and percentage of system cleaned (with repeat cleaning of the same sewer segment not counted toward the total mileage)

Lima Progress Report:

From 1/1/18 to 6/30/18
54,894 linear feet = 10.40 miles (10% of SSS)
 - (2) List hotspot locations and the frequency that those sewer segments were cleaned:

Lima Progress Report:

Lima's "High Maintenance List" (i.e., hot spots) of sanitary sewers was completed by 6-30-18 (WO#56360). This list includes 39,022 feet (7.39 miles - 7.4% of SSS) of sewers that are susceptible to higher levels of grease and debris buildup.
- b. Describe and Quantify the total mileage of internal sewer inspections, such as by CCTV:

Lima Progress Report:

Jan 1, 2018 – Jun 30, 2018
22,793 linear feet of CCTV Inspection = 4.31 miles (4% of SSS)
0 Manholes Inspected

- c. Describe the rehabilitation and replacement work within the Sewer System started and completed or identified for future scheduling:

Lima Progress Report:

1. Rehabilitated 2 manholes (Mr. Manhole, repair casting, etc.)
2. Installed 1 new manhole.

- d. Describe operational changes or improvements implemented as part of the approved CMOM:

Lima Progress Report:

None noted.

- e. Identify any cross-connections detected or eliminated and dye testing or clear water source elimination measures implemented:

Lima Progress Report:

None

- f. Identify the cause and corrective maintenance response taken to any SSOs that occurred:

Lima Progress Report:

In cases that involve structural failure of sewer system components or mechanical/electrical failure of equipment, a 24-hour emergency response crew is dispatched to address the situation. Lima had 1 SSO in the reporting period that required a 5-Day Follow-up Report to OEPA. A detailed description of the cause and corrective action taken for that SSO can be found within the report.

In rain events where the sewer system is stressed beyond capacity, city personnel manage the pump stations and WWTP via SCADA to maintain maximum treatment capability.

I certify under penalty of law that the information contained in or accompanying this (submission/document) is true, accurate and complete. As to (the/those) identified portion(s) of this (submission/document) for which I cannot personally verify (its/their) truth and accuracy, I certify as the official having supervisory responsibility for the person (s) who, acting under my direct instructions, made the verification, that this is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.


Michael H. Caprella
Director of Utilities

City of Lima, Ohio

Attachment

cc: David J. Berger, Lima City Mayor
Fred P. Andes, Barnes & Thornburg LLP
Stephen P. Samuels, Frost Brown Todd LLC
File

0128598.0614522 4835-2645-3286v1

SSO & CSO Overflow Totals

January 1 - June 30, 2018

Annual Report #	EPA ID #	Location of Overflow		SSO	CSO YTD
302	2PE00000047	MH#14 on Lost Creek Golf Course	SSO	6	
007	2PE00000007	S. Central Ave. & Ottawa River	CSO		2
008	2PE00000008	Timberlake Sewer & Ottawa River	CSO		1
009	2PE00000009	Oxford Ave. & Collett Street	CSO		1
037	2PE00000037	North Shore Dr. & Cole St.	CSO		3
035	2PE00000035	Lakewood Ave & Charles St.	CSO		0
034	2PE00000034	Judkins Ave at Kunneke Ave	CSO		0
033	2PE00000033	Nixon Ave. at Kunneke Ave.	CSO		1
303	2PE00000029	Glenwood Ave. between Lakewood and Wales Ave.	SSO	4	
304	2PE00000028	S. Pears Ave. at Kunneke Ave.	SSO	0	
305	2PE00000027	Lakewood Ave. & Maplewood Drive	SSO	0	
306	2PE00000026	S. Pears Ave. between Wendell Ave & Lakewood Ave.	SSO	3	
307	*****	418 South Pears (MH 0-10)	SSO	0	
308	2PE00000025	S. Pears Ave. between Lowell Ave. & Wendell Ave.	SSO	5	
309	2PE00000023	S. Pears Ave. between W. Spring & W. Elm St	SSO	2	
310	2PE00000024	Between W. Spring & W. Elm, East of Primrose Pl	SSO	6	
311		1861 Wendell	SSO	0	
313	2PE00000031	S. Cable Rd. at Lakewood Ave.	SSO	9	
314	2PE00000032	S. Cable Rd. at Wendell Ave.	SSO	8	
316	2PE00000022	Dale Dr. & Idlewild Dr.	SSO	2	
317	2PE00000020	Dale Dr. between W. Wayne & Oakland Pkwy	SSO	4	
318	2PE00000021	Dale Dr. & West Wayne St.	SSO	3	
319	2PE00000018	University Ave. & Dale Dr.	SSO	5	
320	*****	Columbia @ Allentown, MH #92	SSO	5	
321	2PE00000051	1379 N. Cable Road Lift Station (Check Valve)	SSO	0	
322	2PE00000050	1700 Allentown Road Lift Station (Check Valve)	SSO	5	
323	*****	Rosedale @ Ellison Ave.	SSO	5	
324	*****	Woodlawn @ Ellison Ave.	SSO	8	
325	2PE00000017	Woodlawn Ave. & Feeman Ave.	SSO	5	
014	2PE00000014	Metcalf St. & Tremont Ave.	CSO		
016	2PE00000016	Metcalf St. & Ashton Ave.	CSO		
015	2PE00000015	Metcalf St. & Runyan Ave.	CSO		
038	2PE00000038	West & O'Connor Ave	CSO		1
012	2PE00000012	McDonel St. & O'Connor Ave.	CSO		1
011	2PE00000011	Burch Ave. & O'Connor Ave.	CSO		
013	2PE00000013	Metcalf St. & O'Connor Ave.	CSO		1
326	2PE00000010	Northwold St. & O'Connor Ave.	SSO	0	
327	2PE00000049	1330 Melrose Ave.	SSO	0	
329	2PE00000042	Metcalf St. & Lane Ave.	SSO	3	
330	2PE00000044	Metcalf St. & Ford Ave.	SSO	6	
331	*****	Burch & Ford	SSO	1	
332	2PE00000046	2032 Burch Ave.	SSO	4	
333	2PE00000045	Burch Ave. & Lewis Ave.	SSO	4	
334	2PE00000043	Metcalf St. & Lewis Blvd.	SSO	2	
335	2PE00000041	Celia Place & Northern Ave.	SSO	4	
336	2PE00000039	Karen St. & Lewis Blvd. (N)	SSO	11	
337	2PE00000038	Karen St. & Lane Ave	SSO	7	
338	2PE00000056	West St. Lift Station	SSO	0	
Overflow Totals =				127	11
Report Updated on 7-9-18				SSO	CSO
Total # of Reports....24					

Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	2018	2019	2020
GENERAL REQUIREMENTS											
1000	NOTICE TO PROCEED	1	0	30APR18A	30APR18A	30APR18A	30APR18A		NOTICE TO PROCEED		
1010	MOBILIZATION	5	0	30APR18A	04MAY18A	30APR18A	04MAY18A		MOBILIZATION		
3140	PRE-BLAST SURVEYS	5	5	11JUL18*	17JUL18	23JUL18	27JUL18	8	PRE-BLAST SURVEYS		
3150	MASS CONCRETE TEST CUBE	5	5	11JUL18*	17JUL18	17AUG18	23AUG18	27	MASS CONCRETE TEST CUBE		
2980	UNDERGROUND GATE STRUCTURE INSPECTIONS	3	3	24JUL18*	28JUL18	18SEP18	20SEP18	40	UNDERGROUND GATE STRUCTURE INSPECTIONS		
1420	CLOSE BIKE PATH NEAR RIVER	1	1	08AUG18*	08AUG18	25DEC18	25DEC18	101	CLOSE BIKE PATH NEAR RIVER		
1270	REOPEN BIKE PATH NEAR RIVER	1	1	08MAY19	08MAY19	13MAY19	13MAY19	5	REOPEN BIKE PATH NEAR RIVER		
1340	START UP	20	20	06OCT20	02NOV20	06OCT20	02NOV20	0	START UP		
1350	PUNCH LIST	10	10	03NOV20	18NOV20	03NOV20	18NOV20	0	PUNCH LIST		
1410	PLANNED PROJECT COMPLETION	1	1	17NOV20	17NOV20	17NOV20	17NOV20	0	PLANNED PROJECT COMPLETION		
2900	CONTRACT COMPLETION DATE	1	1	30APR21*	30APR21	30APR21	30APR21	0			
SITE WORK											
1020	CLEARING, SITE DEMO	5	0	30APR18A	04MAY18A	30APR18A	04MAY18A		CLEARING, SITE DEMO		
1040	TOPSOIL STRIPPING	3	0	07MAY18A	09MAY18A	07MAY18A	09MAY18A		TOPSOIL STRIPPING		
1080	GAS LINE RELOCATION	3	0	07MAY18A	25MAY18A	07MAY18A	25MAY18A		GAS LINE RELOCATION		
1400	SITE GRADING, CUT IN DETENTION BASIN	10	0	10MAY18A	23MAY18A	10MAY18A	23MAY18A		SITE GRADING, CUT IN DETENTION BASIN		
1030	TEMPORARY FENCING	3	0	21MAY18A	23MAY18A	21MAY18A	23MAY18A		TEMPORARY FENCING		
1330	TEMPORARY DETENTION BASIN OUTLET PIPE	3	0	24MAY18A	28MAY18A	24MAY18A	28MAY18A		TEMPORARY DETENTION BASIN OUTLET PIPE		
2580	SILT FENCE	2	0	24MAY18A	25MAY18A	24MAY18A	25MAY18A		SILT FENCE		
1360	INSTALL GROUNDWATER TREATMENT SYSTEM	4	0	28MAY18A	31MAY18A	28MAY18A	31MAY18A		INSTALL GROUNDWATER TREATMENT SYSTEM		
1390	PERMANENT POWER TO GROUNDWATER TREATMENT SYSTEM	3	0	28MAY18A	30MAY18A	28MAY18A	30MAY18A		PERMANENT POWER TO GROUNDWATER TREATMENT SYSTEM		
2830	TEMP SKIMMER AT DETENTION BASIN	1	0	29MAY18A	29MAY18A	29MAY18A	29MAY18A		TEMP SKIMMER AT DETENTION BASIN		
2590	TEMP ROAD & CULVERTS	5	0	04JUN18A	08JUN18A	04JUN18A	08JUN18A		TEMP ROAD & CULVERTS		
2630	6" WATERLINE TO BFP VAULT	3	1	19JUN18A	31JUL18	19JUN18A	10AUG18	8	6" WATERLINE TO BFP VAULT		
1220	MOVE TEMP FENCE NORTH TO RIVER	2	2	08AUG18	07AUG18	31DEC18	01JAN19	105	MOVE TEMP FENCE NORTH TO RIVER		
1370	24" SEWER & MANHOLES	5	5	14AUG18	20AUG18	02JAN19	08JAN19	101	24" SEWER & MANHOLES		
1230	BRIDGE ABUTMENTS	5	5	16OCT18	22OCT18	29MAR19	04APR19	118	BRIDGE ABUTMENTS		
2720	SET BRIDGE	3	3	23OCT18	25OCT18	05APR19	09APR19	118	SET BRIDGE		
2730	PIPING ON BRIDGE	3	3	26OCT18	30OCT18	10APR19	12APR19	118	PIPING ON BRIDGE		
2740	CONNECTION TO EXISTING 54" PCCP	5	5	31OCT18	06NOV18	15APR19	19APR19	118	CONNECTION TO EXISTING 54" PCCP		
1240	42" FORCE MAIN TO BRIDGE	5	5	07NOV18	13NOV18	22APR19	26APR19	118	42" FORCE MAIN TO BRIDGE		
1380	15" DETENTION BASIN OUTLET	5	5	30NOV18	06DEC18	22APR19	26APR19	101	15" DETENTION BASIN OUTLET		
2860	UNDERGROUND ELEC TO COLLETT ST. CONTROL STRUCTURE	5	5	30NOV18	06DEC18	22APR19	26APR19	101	UNDERGROUND ELEC TO COLLETT ST. CONTROL STRUCTURE		
1260	SEEDING NORTH OF BIKE PATH	5	5	22APR19*	26APR19	26APR19	03MAY19	5	SEEDING NORTH OF BIKE PATH		
2710	FENCE AT PIPE BRIDGE & DIVERSION CHAMBER	5	5	22APR19	26APR19	06MAY19	10MAY19	10	FENCE AT PIPE BRIDGE & DIVERSION CHAMBER		
1250	ASPHALT AT BIKE PATH	5	5	29APR19*	03MAY19	06MAY19	10MAY19	5	ASPHALT AT BIKE PATH		
2780	CONNECT 96" SEWER TO CSO TANK	2	2	15MAY19	16MAY19	10JUL20	13JUL20	302	CONNECT 96" SEWER TO CSO TANK		
2680	TRANSFORMER PAD	3	3	22JUN20	24JUN20	08SEP20	11SEP20	57	TRANSFORMER PAD		
2840	DOWNSPOUT DISCHARGE PIPING	2	2	22JUN20	23JUN20	01OCT20	02OCT20	73	DOWNSPOUT DISCHARGE PIPING		
2690	SET TRANSFORMER	1	1	25JUN20	25JUN20	14SEP20	14SEP20	57	SET TRANSFORMER		
2700	ELECTRICAL UNDERGROUND TO TRANSFORMER	5	5	25JUN20	01JUL20	28SEP20	02OCT20	87	ELECTRICAL UNDERGROUND TO TRANSFORMER		
2750	SITE CONCRETE	5	5	02JUL20	08JUL20	06OCT20	09OCT20	87	SITE CONCRETE		
2640	SET BFP VAULT	2	2	20AUG20	21AUG20	20AUG20	21AUG20	0	SET BFP VAULT		
2650	SET FLUSH VALVE VAULT	2	2	24AUG20	25AUG20	24AUG20	25AUG20	0	SET FLUSH VALVE VAULT		
2660	BFP & FLUSH VALVE VAULT PIPING	5	5	26AUG20	01SEP20	26AUG20	01SEP20	0	BFP & FLUSH VALVE VAULT PIPING		
2690	BFP & FLUSH VALVE VAULT DAMPPROOFING	2	2	26AUG20	27AUG20	31AUG20	01SEP20	3	BFP & FLUSH VALVE VAULT DAMPPROOFING		
2670	SET BFP AND FLUSH VALVE VAULT TOP SLABS	2	2	02SEP20	03SEP20	02SEP20	03SEP20	0	SET BFP AND FLUSH VALVE VAULT TOP SLABS		
2780	C900 PVC NPW LINES	7	7	04SEP20	14SEP20	04SEP20	14SEP20	0	C900 PVC NPW LINES		
3160	BFP & FLUSH VALVE VAULT PIPE INSULATION	5	5	04SEP20	10SEP20	17SEP20	23SEP20	9	BFP & FLUSH VALVE VAULT PIPE INSULATION		
2870	BFP & FLUSH VALVE VAULT PAINTING	3	3	11SEP20	15SEP20	24SEP20	28SEP20	9	BFP & FLUSH VALVE VAULT PAINTING		
2850	BALANCE OF UNDERGROUND ELECTRIC	10	10	15SEP20	28SEP20	15SEP20	28SEP20	0	BALANCE OF UNDERGROUND ELECTRIC		

Start Date

Finish Date

Date Date

Run Date

30APR18

30APR21

11JUL18

07JUL20

Early Bar

Progress Bar

Critical Activity

LCR

PETERSON CONSTRUCTION COMPANY

LIMA CSO

Classic Schedule Layout

Sheet 1 of 3

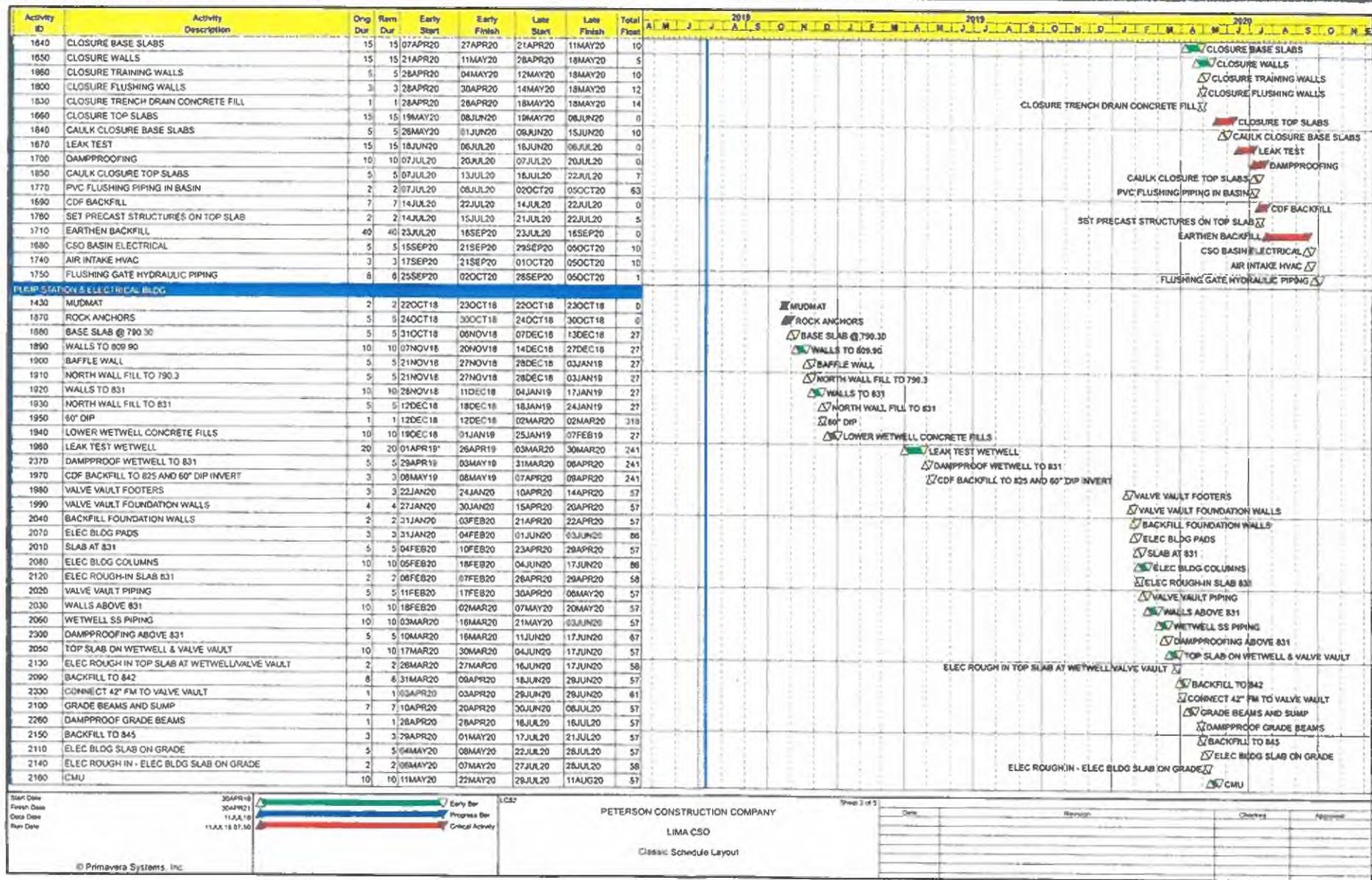
Date

Revision

Check #

Approved

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Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	2019	2019	2020
2930	HVAC	5	5	15JAN19	22JAN19	22FEB19	28FEB19	27			
2950	START-UP	3	3	23JAN19	25JAN19	01MAR19	05MAR19	27			
2960	LANDSCAPE REPAIR	3	3	01APR19*	03APR19	26APR19	30APR19*	19			
MIBBY UNDERGROUND GATE STRUCTURE											
2990	SLIDE GATE STEMS	3	3	28JAN19	30JAN19	06MAR19	08MAR19	27			
3000	CONCRETE PADS	4	4	28JAN19	31JAN19	11MAR19	14MAR19	30			
3010	PVC CARRIER PIPES	4	4	31JAN19	05FEB19	11MAR19	14MAR19	27			
3030	ELECTRICAL	12	12	06FEB19	21FEB19	15MAR19	01APR19	27			
3020	REXA ACTUATORS	6	6	06FEB19	13FEB19	18MAR19	25MAR19	28			
3040	HVAC	5	5	14FEB19	20FEB19	26MAR19	01APR19	28			
3050	START-UP	3	3	22FEB19	26FEB19	02APR19	04APR19	27			
CENTRAL UNDERGROUND GATE STRUCTURE											
3060	SLIDE GATE STEMS	2	2	27FEB19	28FEB19	05APR19	08APR19	27			
3070	CONCRETE PADS	4	4	27FEB19	04MAR19	08APR19	11APR19	28			
3080	PVC CARRIER PIPES	3	3	01MAR19	05MAR19	08APR19	11APR19	27			
3100	ELECTRICAL	10	10	05MAR19	18MAR19	12APR19	25APR19	28			
3090	REXA ACTUATORS	5	5	05MAR19	12MAR19	12APR19	18APR19	27			
3110	HVAC	5	5	13MAR19	19MAR19	19APR19	25APR19	27			
3130	GUARDRAIL	3	3	19MAR19	21MAR19	26APR19	30APR19*	28			
3120	START-UP	3	3	20MAR19	22MAR19	28APR19	30APR19*	27			

Start Date	Finish Date	Activity	Early Start	Early Finish	Late Start	Late Finish	Total Float
30APR19	30APR19	Early Start					
11JUL19	11JUL19	Progress Bar					
11JUL19 07:50	11JUL19 07:50	Critical Activity					

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PETERSON CONSTRUCTION COMPANY

LIMA CSO

Classic Schedule Layout

Sheet 5 of 5