

CRESCENTA VALLEY WATER DISTRICT

MEMORANDUM

DATE: April 2, 2015
TO: Engineering Committee Meeting File
FROM: David S. Gould, District Engineer
SUBJECT: CVWD Engineering Committee Meeting No. 292

Following is a summary of Engineering Committee Meeting No. 292, held at 8:00 AM on March 26, 2015, at the CVWD main office, and was attended by the following:

Director Kerry Erikson - Committee Chairperson	CVWD
Director Ken Putnam – Committee Member	CVWD
Thomas Love – General Manager	CVWD
Brook Yared – Associate Engineer	CVWD
David S. Gould – District Engineer	CVWD

1. Review of Well Levels and Well Capacity Status Charts

Mr. Yared discussed the well levels through March 2015 stating that the static levels for the majority of the wells have decreased overall with a few exceptions for wells that are no longer on a 24 hour production cycle. Mr. Yared presented the well capacity chart that showed the status of the daily groundwater production in 2013 to 2015. The chart showed that the well capacity has been declining over recent months with a lot of variability due recent shutdown of wells because of biological contamination at several of the well sites with the capacity currently at about 2.2 MGD. Directors Putnam and Erikson requested that the well design capacity information be included on the well level reports.

2. FY 15/16 – CIP Project Review

Mr. Gould provided two tables to the people in attendance summarizing the CIP budget for fiscal year 15/16. Table 1 showed the preliminary annual CIP based on needed projects for the coming years at about \$4M per year. Table 2 showed a reduced CIP budget based on reducing the overall CIP budget to approximately \$2M per year.

Mr. Gould informed the Committee that after reviewing last year's CIP budget the leading reason that the \$2 million dollar target was not met in fiscal year 14/15 was due to the funds budgeted for the replacement of the Ocean View Reservoir overflow/drain line. After the paving was complete, the City of La Canada Flintridge requested additional design information and that pushed the bulk of the construction for this work into fiscal year 16/17.

Directors Erikson and Putnam recommended presenting the \$2M CIP budget to the Board. Director Putnam requested that a FY 15/16 project schedule be provided at the next Engineering Committee meeting. Both Directors also expressed concern about the amount of spending for SCADA upgrades. They recommended preparing a presentation explaining the type of SCADA work that will be performed and a cost benefit analysis of the SCADA project to help justify the expense.

3. FY 15/16 – Consultant Projects

Mr. Gould presented a list of studies and reports the staff will need the assistance of consultants to complete and that are either currently involved in or planning for the next fiscal year. This list of projects included a cost of water service study, a volume-based wastewater study, a wastewater master plan, and the 2015 urban water management plan. Staff will prepare request for proposals within the next few months. These studies are planned to begin in early September 2015.

4. FY 14/15 – CIP Project Status and Project Schedule

Ocean View Reservoir Overflow/Drain Pipe Project

Mr. Gould informed the committee that the paving portion of the project has been completed. With that portion of the project completed, the City of La Canada Flintridge has slowed the progress of completion of the storm drain connection. The work performed to date has alleviated public inconvenience, and before moving forward with construction, the City of La Canada Flintridge, is requesting that a hydraulic study be performed to properly size the storm drain.

Well 16 – Well Project

The grant agreement was completed in January 2015 and that staff has been working with Cannon to complete the design within the next month. Director Putnam suggested that since the well has been sitting for several years, that some type of well rehabilitation should be done before Well 16 is put into service. Mr. Gould indicated he will work with Cannon and a well pump contractor on the well rehabilitation. Mr. Gould continued with a brief review of the design and mentioned the need to discharge Well 16 during start up and maintenance to the storm drain. Mr. Gould also indicated he will be working with the State Water Control Board for the discharge requirements.

Ocean View Chlorination Station Project

The Chlorination Station Building pre-bid meeting is scheduled for April 1, 2015 with a planned Award of Contract date set for April 21, 2015 once the lowest responsible bidder has been determined after the bid opening on April 15, 2015.

CVWD/LADWP Interconnection Project

The remainder of the project is under design and planned to be completed by the end of the year.

Oak Creek Motor Control Center

Construction began in mid-March and is planned to be completed by the end of August 2015.

CVC Park – Stormwater Feasibility Study

The construction of the monitoring wells was completed in March 2015, and the percolation pit is planned to be completed by the end of May 2015.

Mr. Gould provided an update of the FY 14/15 CIP budget and project schedule that showed the status of each project and indicated that staff is planning to complete the majority of the projects by the end of the fiscal year.

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

Agenda for the Meeting of the Engineering Committee
of the Crescenta Valley Water District

To be held on

March 26, 2015 at 8:00 AM

Posted March 24, 2015 at 10:00 am

Call to Order

Adoption of Agenda

Information Items

1. Review of Well Levels and Well Capacity Status Charts
2. FY 15/16 – CIP Project Review
3. FY 15/16 – Consultant Projects
4. FY 14/15 – CIP Project Status and Project Schedule

Public Comments

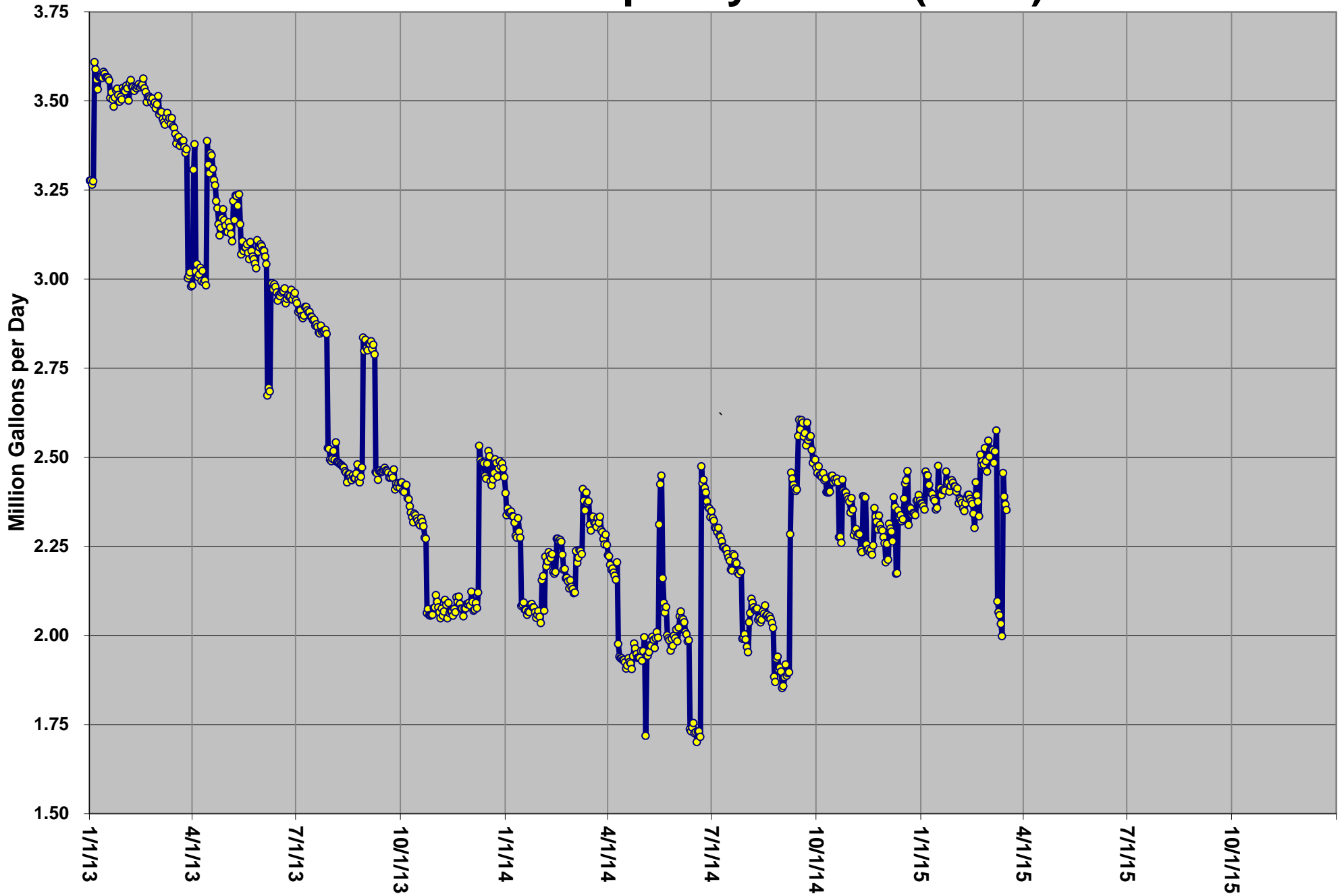
At this time, members of the public shall have an opportunity to address the committee on items of interest that are within the subject matter jurisdiction of the Committee. This opportunity is non-transferable and speakers are limited to three (3) minutes each.

Committee Member's Request for Future Agenda Items

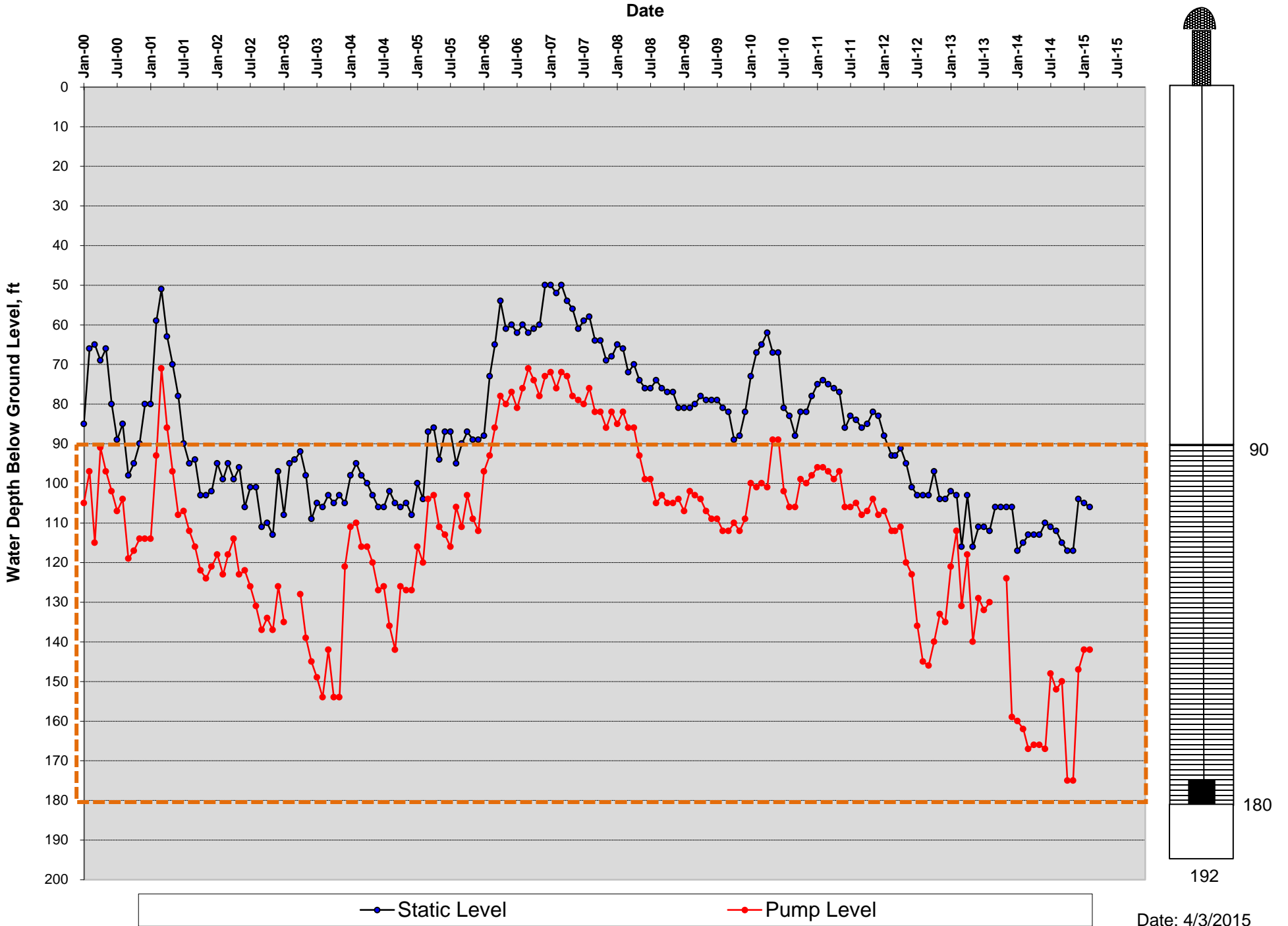
Next Engineering Committee Meeting – April 10, 2015

Adjournment

Crescenta Valley Water District 2013-15 Well Capacity Status (MGD)

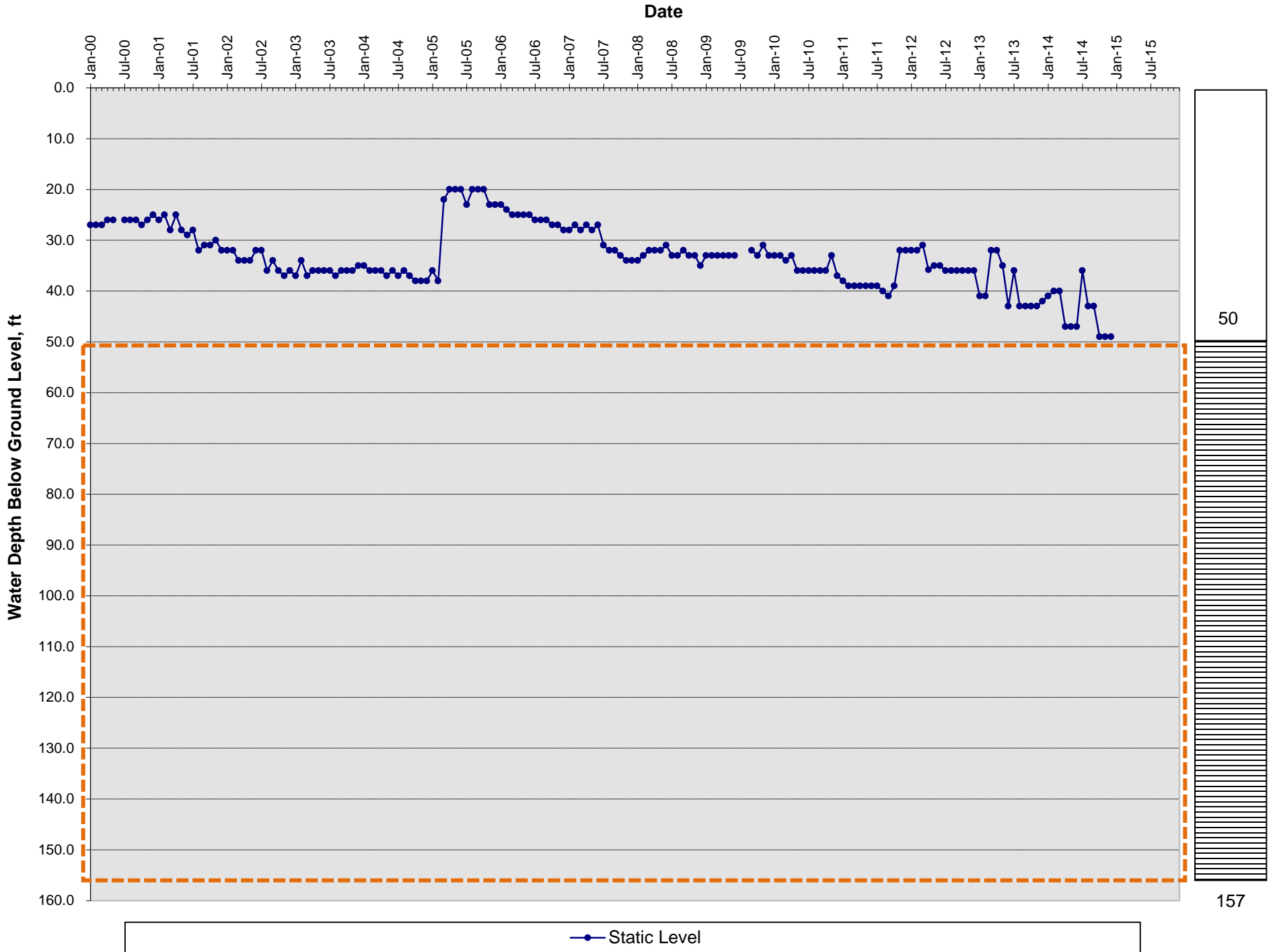


Well 1: 2000 - 2015 - Static and Pumping Levels

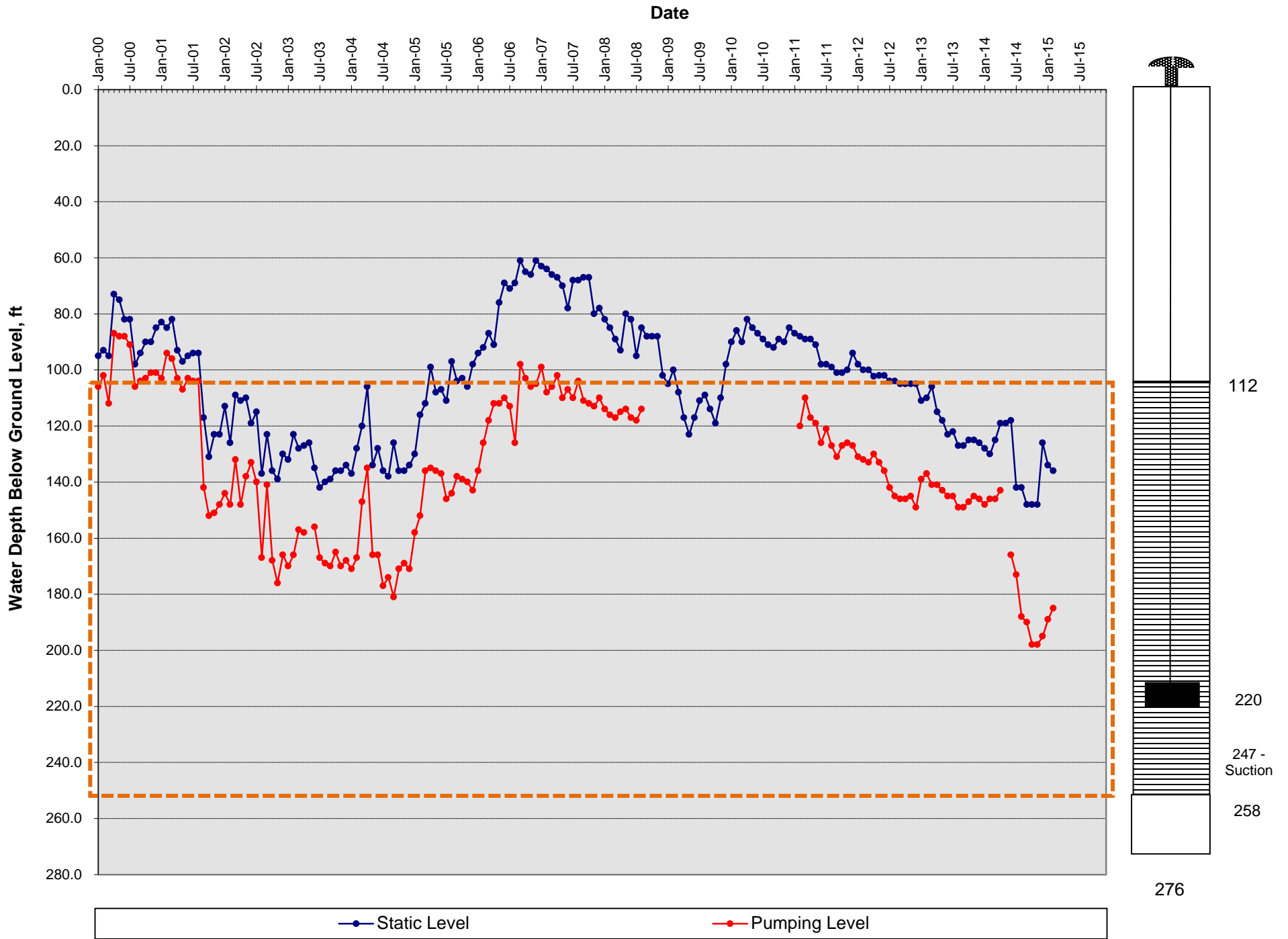


Date: 4/3/2015

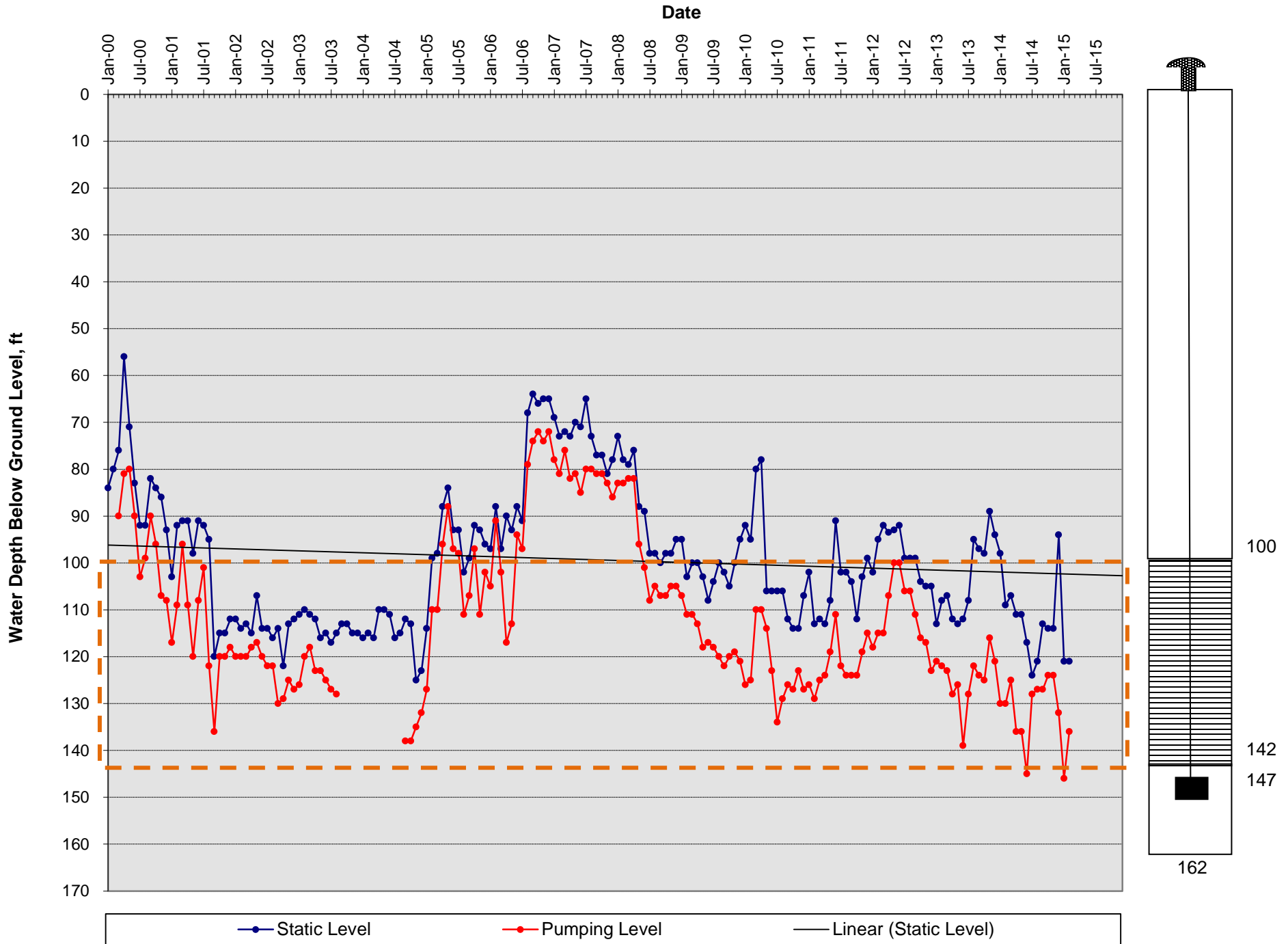
Well 2: 2000 - 2015 - Static Level



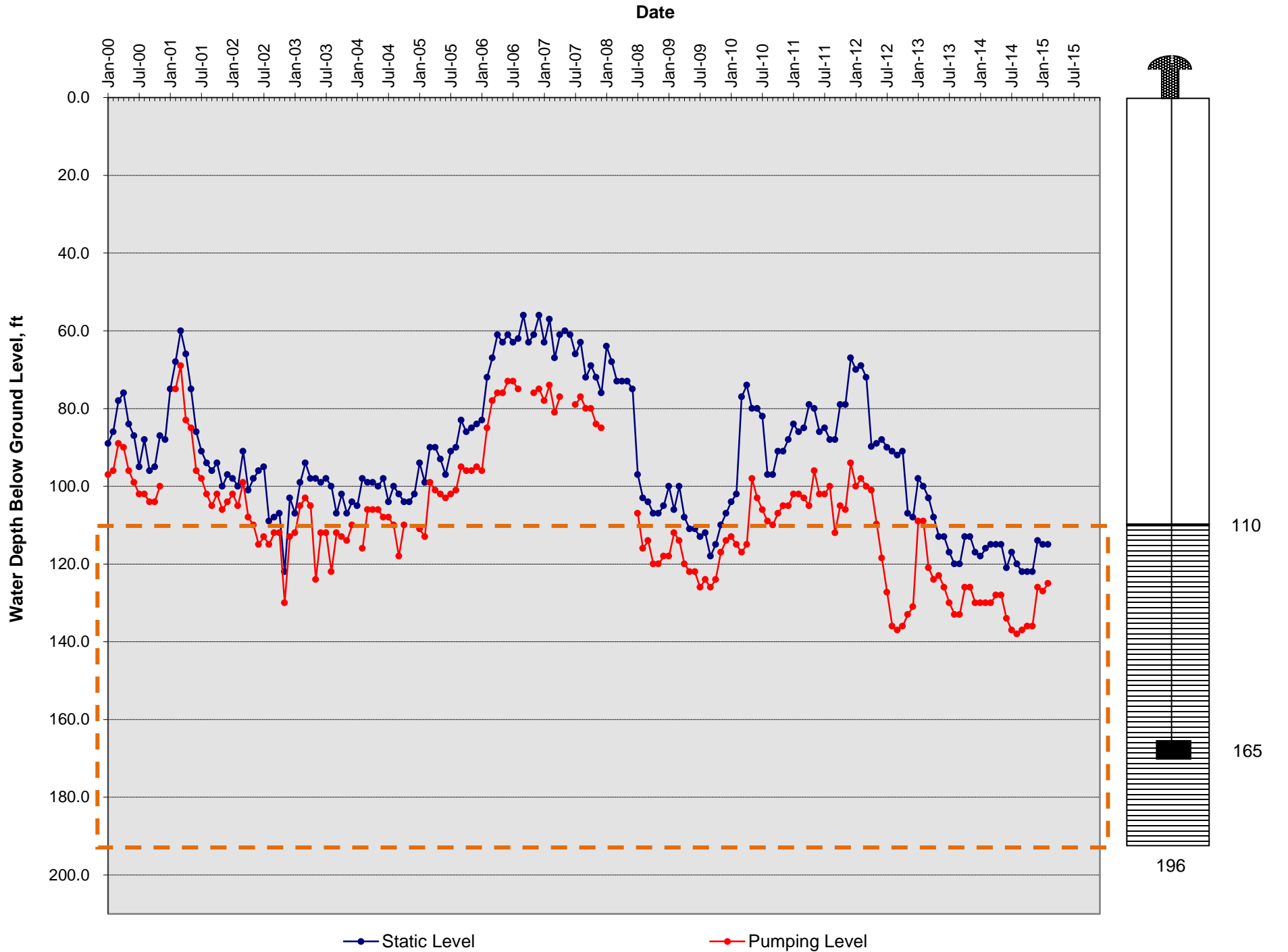
Well 5: 2000 - 2015 - Static and Pumping Levels



Well 6: 2000 - 2015 - Static and Pumping Levels

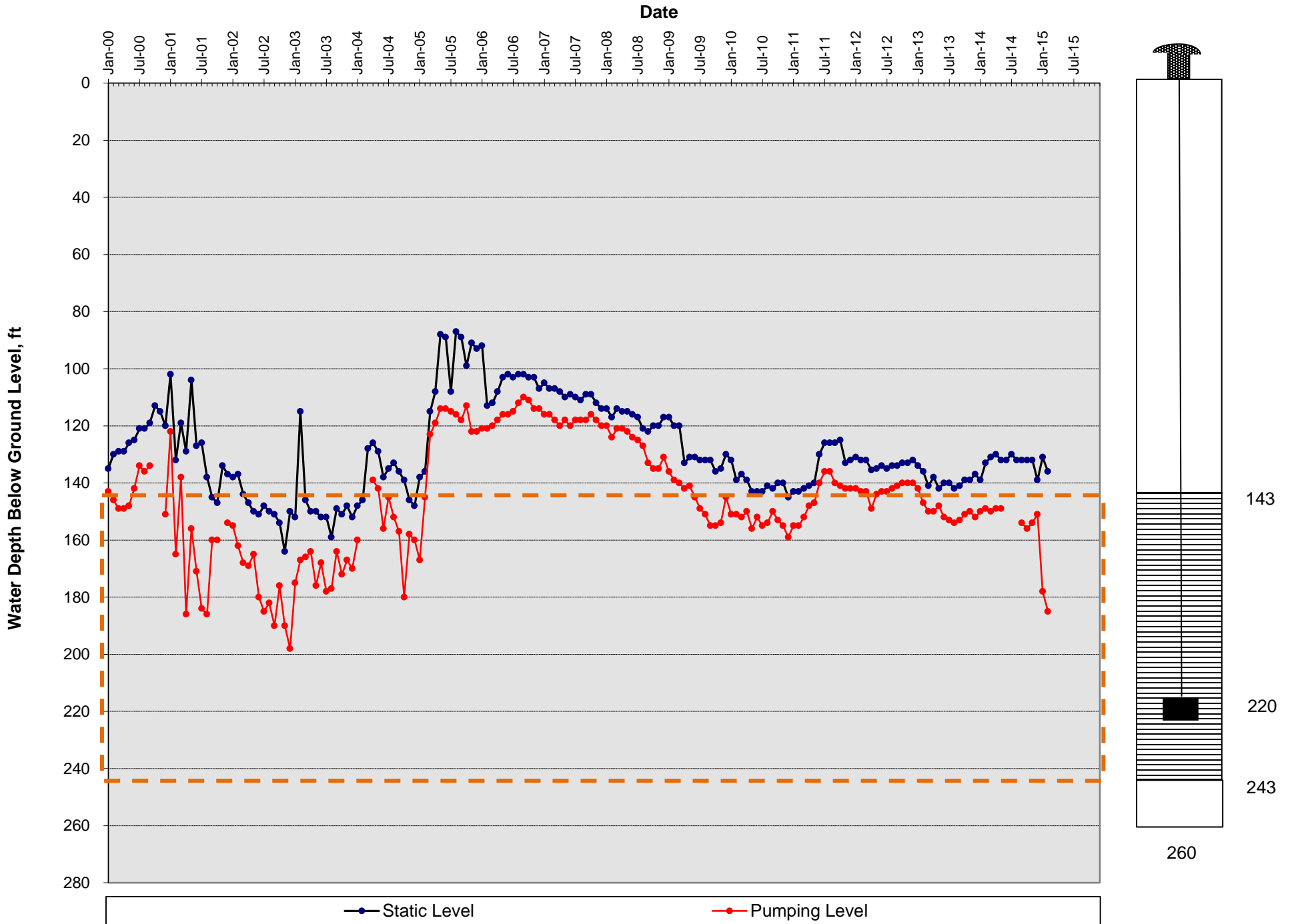


Well 7: 2000 - 2015 - Static and Pumping Levels



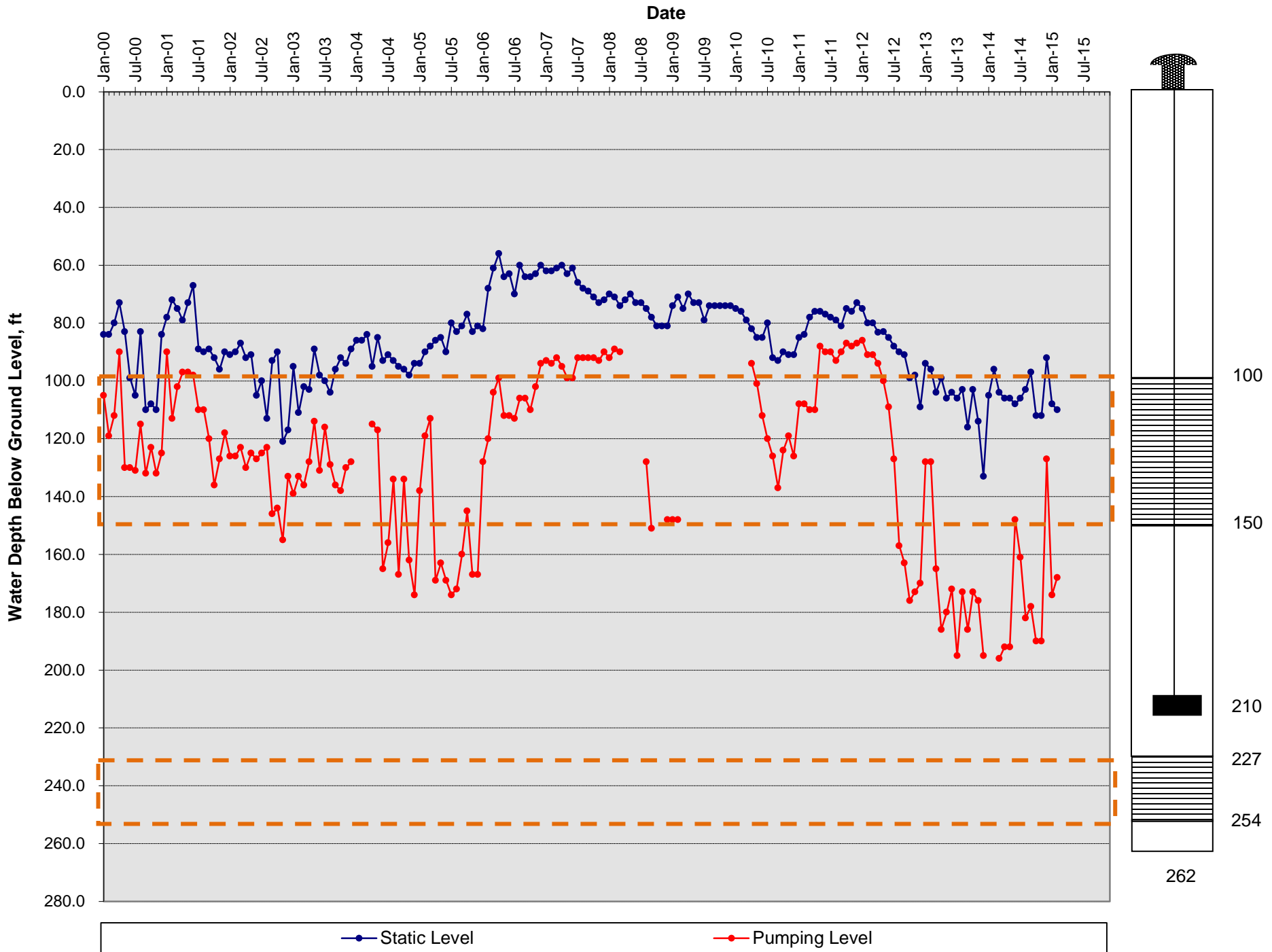
Date: 4/3/2015

Well 8: 2000 - 2015 - Static and Pumping Levels

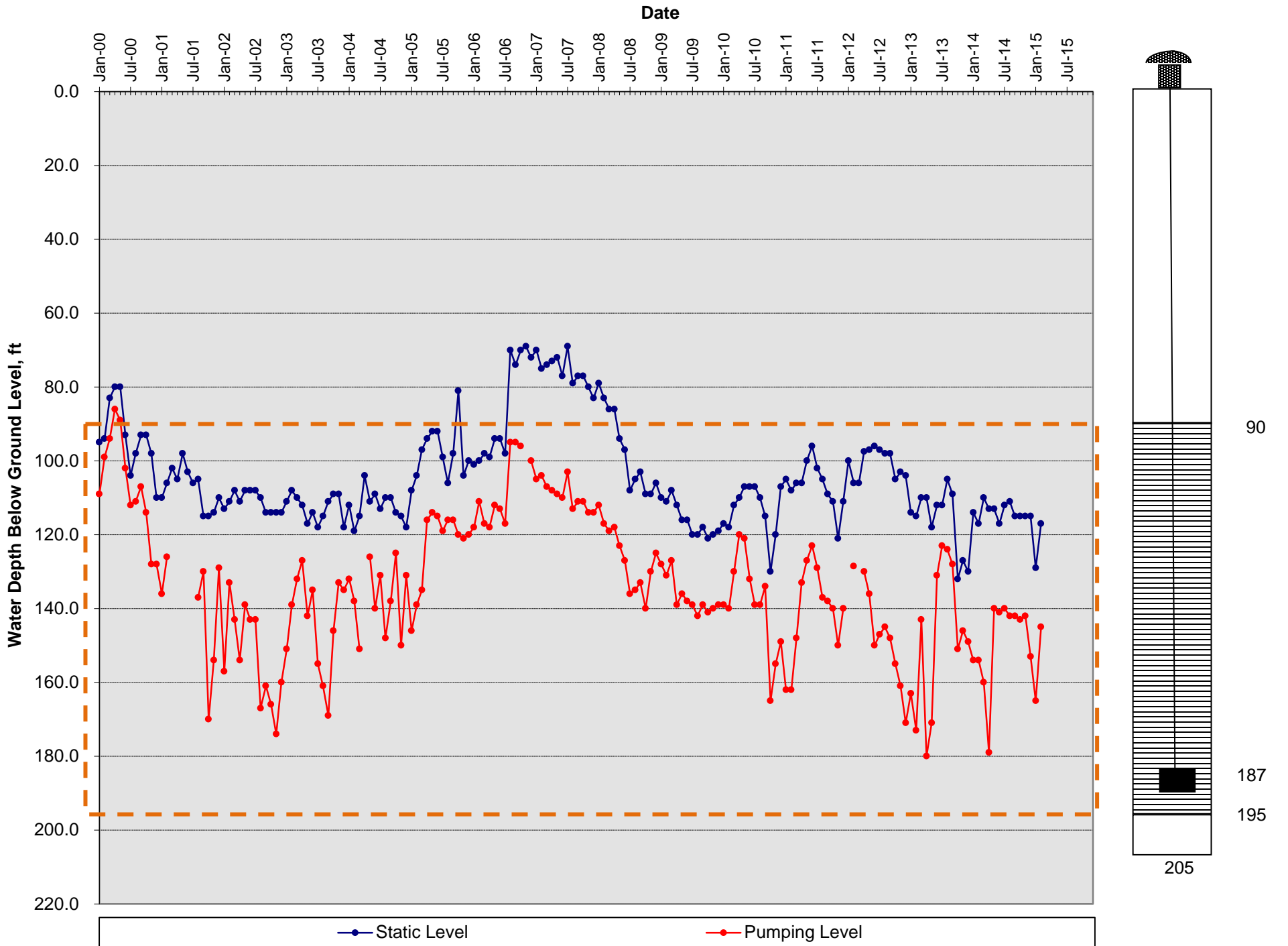


Date: 4/3/2015

Well 9: 2000 - 2015 - Static and Pumping Levels

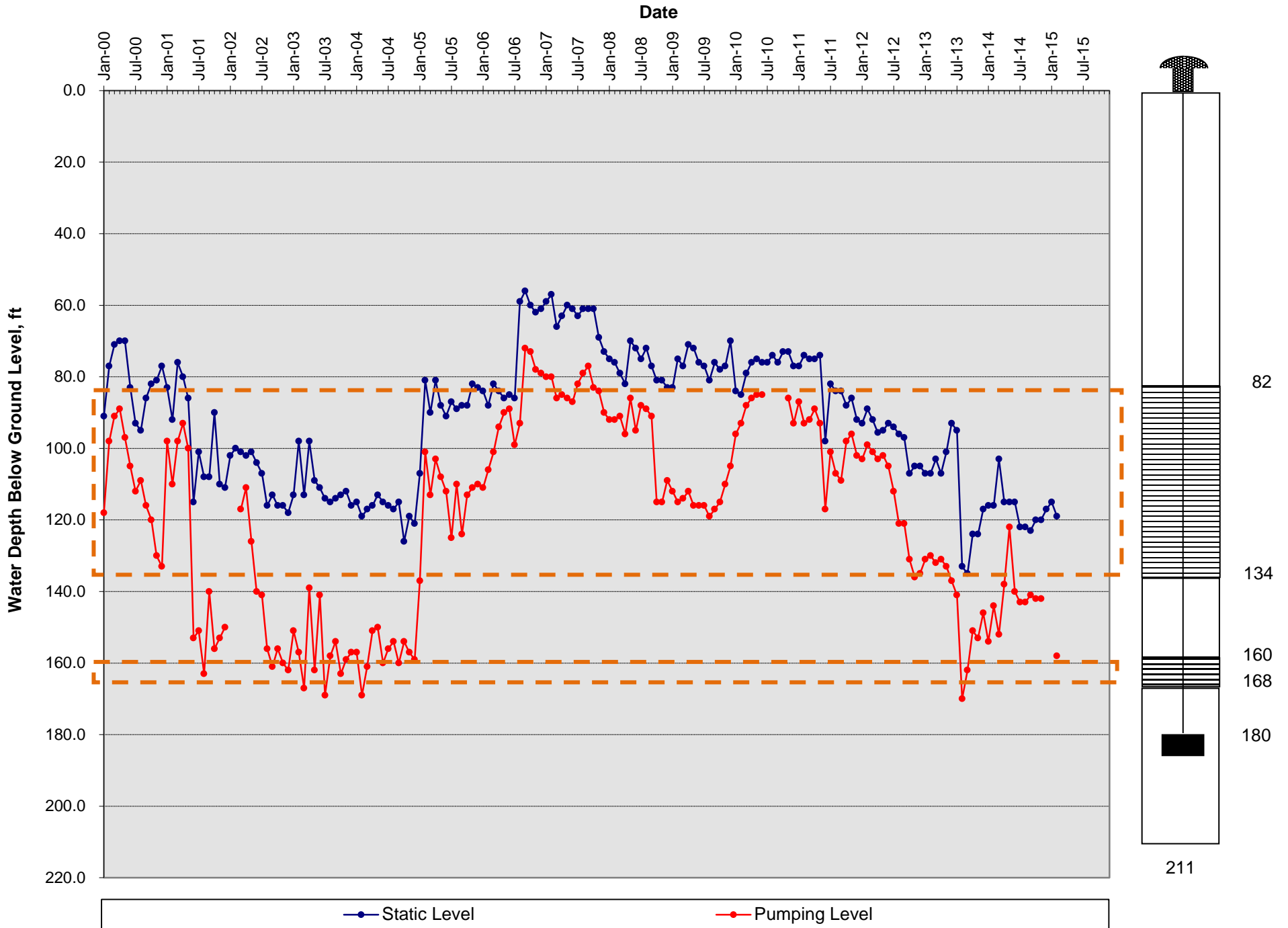


Well 10: 2000 - 2015 - Static and Pumping Levels



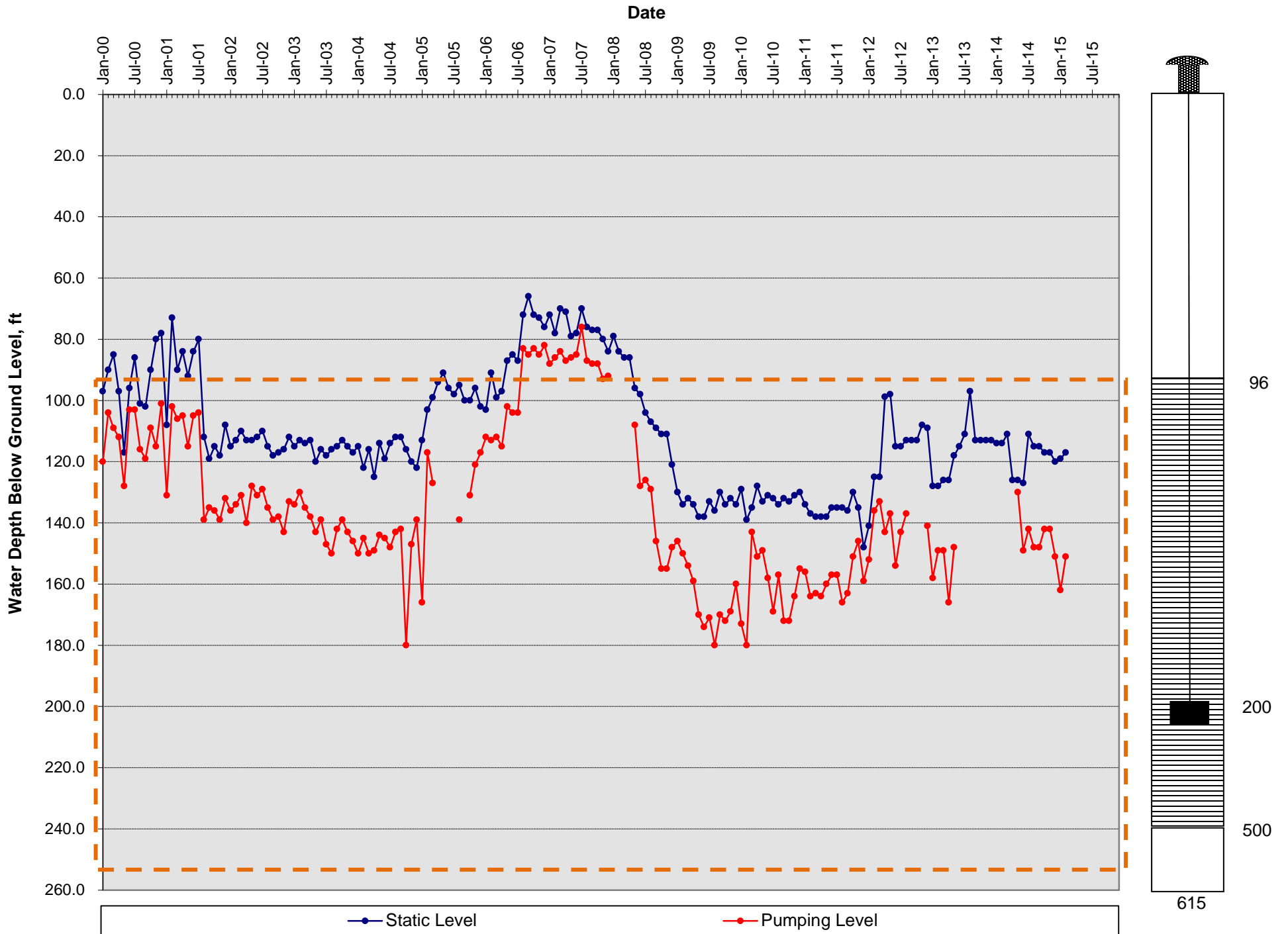
Date: 4/3/2015

Well 11: 2000 - 2015 - Static and Pumping Levels



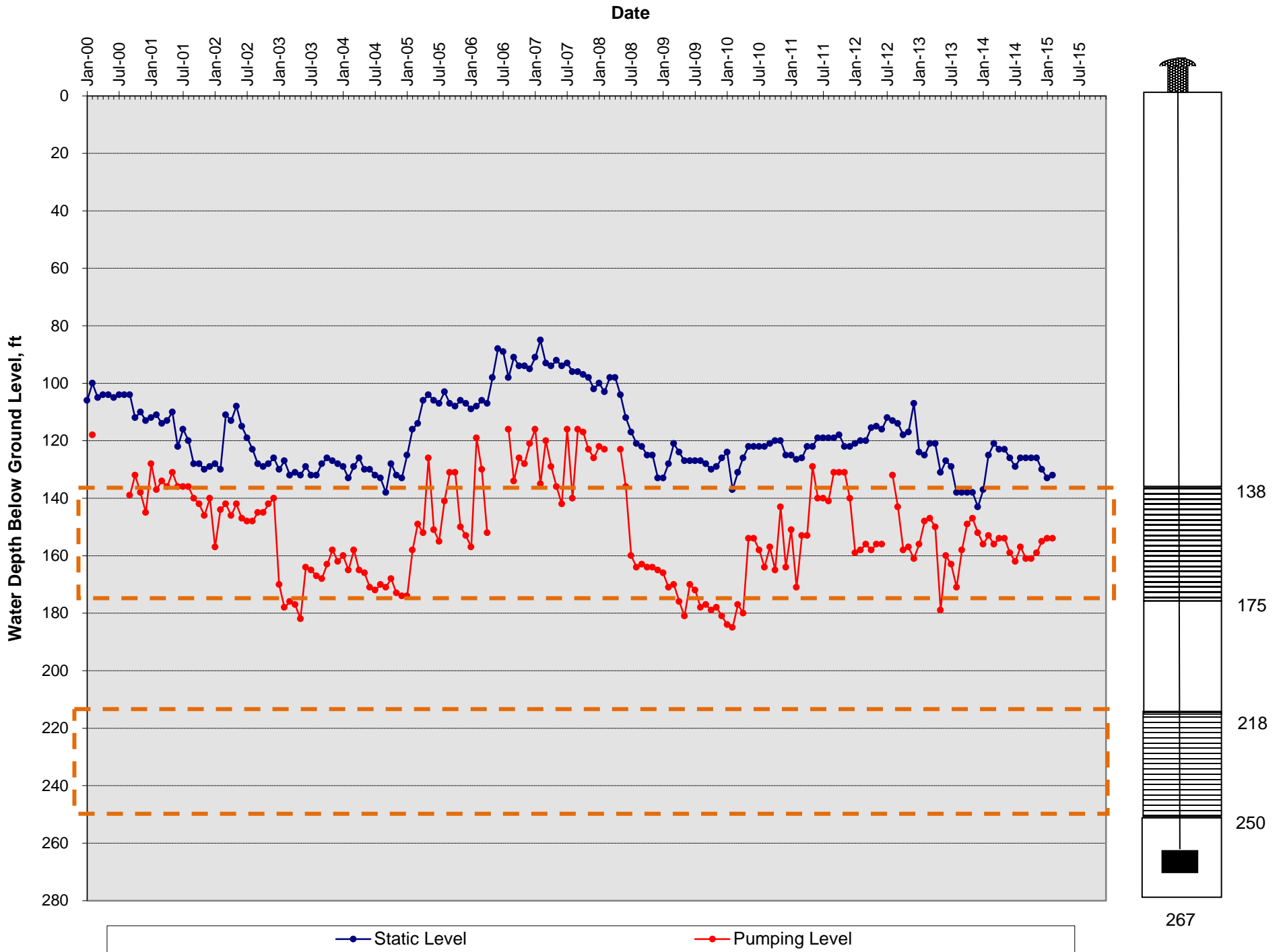
Date: 4/3/2015

Well 12: 2000 - 2015 - Static and Pumping Levels



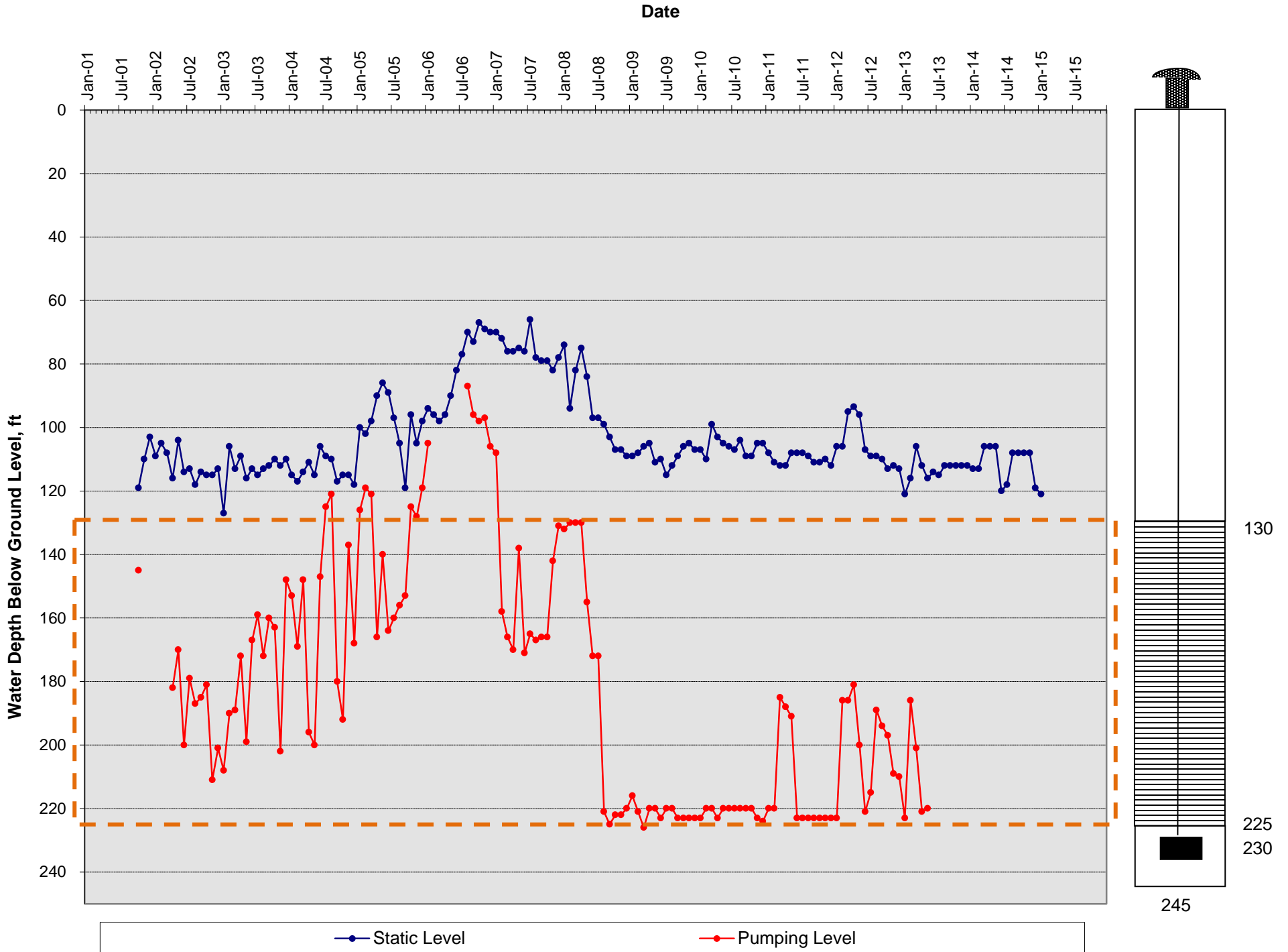
Date: 4/3/2015

Well 14: 2000 - 2015 - Static and Pumping Levels



Date: 4/3/2015

Well 15: 2000 - 2013 - Static and Pumping Levels



Date: 4/3/2015

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2 & 3
March 26, 2015

To: Engineering Committee
From: David S. Gould, P.E. – District Engineer
Subject: **FY 15/16 Capital Improvement Project Program**

ITEM:

1. Review of FY 15/16 CIP Budget
2. Review of FY 15/16 Consultant Projects

DISCUSSION:

FY 15/16 CIP Budget

Staff prepared the FY 2015/16 CIP budget based on infrastructure replacement programs to upgrade CVWD's infrastructure such as pipelines, well rehabilitation, new wells, steel reservoir rehabilitation, upgrading electrical motor control centers, and replacement of the SCADA system.

Staff's initial review of the budget as shown in Table 1 attached, showed the annual CIP at about \$4M per year. However, with the current staff level and in consideration of the "Pay-as-you-go", staff reduced the CIP budget to approximately \$2M per year as shown in Table 2.

The major projects which will be focused on by staff during FY 15/16 will be the completion of projects such as the MCC replacement at Oak Creek, the Ocean View Chlorination Station, the interconnection at Ordunio Reservoir, and continuation of the replacement of the SCADA system. In addition, about 3,000 of pipeline will be replaced and Well 7 is scheduled for rehabilitation.

Consultant Projects

Staff prepared a summary of studies and reports which are needed for FY 15/16 and include a cost of water service study, a volume-based wastewater study, a wastewater master plan, and the 2015 urban water management plan. Staff will prepare request for proposals within the next few months and the studies should begin around early September 2015.

Prepared & Submitted by:

David S. Gould, P.E.
District Engineer

Attachments:

1. Table 1 – FY 15/16 Preliminary CIP Budget
2. Table 2 – FY 15/16 Final CIP Budget
- 3.

Capital Improvement Project Program FY 15-16 Preliminary - 5-year CIP Budget	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
1. Water Supply							
A. Groundwater							
i. Well Rehabilitation							
Well 11 Rehabilitation	\$ 65,000	\$ 61,344					
Well 14 Rehabilitation	\$ 60,000	\$ -	\$ 50,000				
Well 7 Rehabilitation			\$ 60,000				
Well 14 Rehabilitation			\$ 60,000				
Well 6 Rehabilitation				\$ 75,000			
Well 12 Rehabilitation				\$ 75,000			
Well 1 Rehabilitation					\$ 75,000		
Well 14 Rehabilitation					\$ 50,000		
Well 5 Rehabilitation						\$ 75,000	
Well 9 Rehabilitation						\$ 75,000	
Well 11 Rehabilitation						\$ 75,000	
Well 10 Rehabilitation							\$ 750,000
Well 14 Rehabilitation							\$ 50,000
ii. New Wells							
Well 16 - Equipment & Pipeline - Design	\$ 85,000	\$ 81,000	\$ 30,000				
Well 16 - Construction (Grant - Matching Funds)	\$ -	\$ 135,000	\$ 155,000				
Re-Activate Well 2 - Design				\$ 125,000			
Re-Activate Well 2 - Construction					\$ 150,000		
iii. Studies							
B. Imported Water							
CVWD/LADWP Inter. at Ordunio (Grant - Matching Funds)	\$ 125,000	\$ -	\$ 250,000				
Ocean View Piping & Vaults (Grant - Matching Funds)	\$ 210,000	\$ 249,676					
Ocean View Chlorination Station (Grant - Matching Funds)		\$ -	\$ 165,000				
Ocean View - Equip. & Elect (Grant - Matching Funds)		\$ -	\$ 125,000				
C. Groundwater Basin Recharge							
Storm Water Recharge Study (Grant - Matching Funds)	\$ 55,000	\$ 55,000	\$ 40,000				
Stormwater Recharge Project - Design				\$ 50,000			
Stormwater Recharge Project - Construction					\$ 550,000	\$ 550,000	
D. Recycled Water System							
i. Recycled Water							
Recycled Water System Study				\$ 75,000			
ii. Membrane Bioreactor Technology							
WS Total	\$ 600,000	\$ 582,020	\$ 935,000	\$ 400,000	\$ 825,000	\$ 775,000	\$ 800,000

Capital Improvement Project Program FY 15-16 Preliminary - 5-year CIP Budget	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
2. Water Storage							
A. Reservoir Rehabilitation							
i. Roof/Vents Rehabilitation							
<i>Oak Creek #1 - Roof/Air Vents</i>			\$ 250,000	\$ -			
<i>Oak Creek #2 - Roof/Air Vents</i>				\$ 250,000	\$ -		
<i>Rosemont - Roof/Air Vents</i>					\$ 250,000	\$ -	
<i>Markridge - Air Vents</i>						\$ 250,000	
<i>Goss Canyon - Roof/Air Vents</i>							\$ 250,000
ii. Steel Reservoir Re-Coating							
iii. Concrete Reservoir Rehabilitation							
<i>Encinal Reservoir - Concrete Rehabilitation</i>				\$ 100,000			
iv. Corrosion Protection							
<i>Cathodic Protection - Replacement</i>					\$ 60,000		
v. Overflow & Drain System Upgrade							
<i>Upgrade Overflow/Drain System - Design + Maintenance</i>	\$ -	\$ 36,000	\$ 15,000				
<i>Ocean View Reservoir - AC Pavement</i>	\$ -	\$ 70,267	\$ -				
<i>Ocean View Reservoir - Overflow/Drain - Construction</i>	\$ -	\$ -	\$ 450,000				
B. Reservoir Water Quality							
i. Water Mixing System							
<i>Reservoir Water Quality & Mixing System Study</i>				\$ 55,000			
<i>Water Quality Mixing System - Design</i>					\$ 85,000		
<i>Water Quality Mixing System - Construction</i>						\$ 100,000	
iv. Replace common inlet and outlet piping							
<i>Encinal Reservoir - Replace Common Inlet & Outlet pipe - Design</i>				\$ 75,000			
<i>Encinal Reservoir - Replace Common Inlet & Outlet pipe - Const.</i>					\$ 375,000		
<i>Eagle Canyon Reservoir - Replace Common Inlet & Outlet pipe - Design</i>						\$ 75,000	
<i>Eagle Canyon Reservoir - Replace Common Inlet & Outlet pipe - Const.</i>							\$ 125,000
C. New Reservoir Water Storage							
WS Total	\$ -	\$ 106,267	\$ 715,000	\$ 480,000	\$ 395,000	\$ 350,000	\$ 250,000

Capital Improvement Project Program FY 15-16 Preliminary - 5-year CIP Budget	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
3. Water Distribution							
A. Pipeline Replacement							
2900 Block - Paraiso Way - 800 LF	\$ 200,000	\$ 180,942					
2900 Block - Santa Carlotta - 800 LF	\$ 200,000	\$ 180,942					
4900 Block - Glenwood - 600 LF	\$ 150,000	\$ 140,732					
2800 Block - Prospect - 600 LF	\$ 150,000	\$ -					
4400 Block - Glenwood - 200 LF	\$ 50,000	\$ -					
2600 Block - Harmony Place - 450 LF			\$ 115,000				
3900 Block - Park Place - 300 LF			\$ 75,000				
2900 Block - Mary Avenue - 800 LF			\$ 200,000				
2700 Block - Brookhill Avenue - 700 LF			\$ 175,000				
2700 Block - Paraiso Way - 200 LF			\$ 50,000				
3200 Block - Park Vista - 300 LF			\$ 75,000				
3000 - 3300 Blocks - Brookhill Avenue - 3,300 LF				\$ 860,000			
2200 Block - Honolulu Ave - 750 LF					\$ 190,000		
4900 Block - El Sereno - 350 LF					\$ 90,000		
2300 Block - Teasley - 700 LF					\$ 175,000		
2800 Block - Los Olivos - 850 LF					\$ 215,000		
2400 Block - Fairmount - 100 LF					\$ 25,000		
4800 Block - Dyer - 400 LF					\$ 100,000		
2400 & 2500 Blocks - Janet Lee - 1300 LF						\$ 340,000	
3000 Block - Los Olivos - 800 LF						\$ 210,000	
4600 Block - Orin - 200 LF						\$ 55,000	
2000 Block - Ahlin - 200 LF						\$ 55,000	
4900 Block - Caminito - 300 LF						\$ 80,000	
3500 Block - Montrose - 300 LF						\$ 80,000	
3200 & 3300 Block - Foothill Blvd - 1,950 LF							\$ 505,000
1900 Block - Waltonia - 1250 LF							\$ 325,000
B. New Pipelines							
C. Booster Pump System							
i. Annual Pump /Motor Replacement							
Eagle Canyon - Booster B	\$ -	\$ 37,454					
Encinal - Booster A	\$ 35,000	\$ 24,556					
2 - Boosters			\$ 70,000				
2 - Boosters				\$ 70,000			
2 - Boosters					\$ 70,000		
2 - Boosters						\$ 70,000	
2 - Boosters							\$ 70,000

Capital Improvement Project Program FY 15-16 Preliminary - 5-year CIP Budget	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
ii. Pump Station Upgrade							
<i>Mills Plant - Aeration Tower Rehabilitation</i>	\$ 35,000	\$ -	\$ 35,000				
<i>Upgrade - Paschal Booster Station inlet piping & valves</i>					\$ 50,000	\$ 255,000	
<i>New Booster Pump Station - Cresta Heights</i>							\$ 75,000
iii. VFD Pump Upgrade							
<i>VFD's & Upgrade at Paschal & Mills</i>			\$ 50,000				
iv. MCC Replacement							
<i>MCC upgrade at Oak Creek</i>	\$ 300,000	\$ 225,217	\$ 185,000				
<i>MCC upgrade at Paschal</i>			\$ 75,000	\$ 425,000			
<i>MCC upgrade at Goss Canyon</i>				\$ 75,000	\$ 350,000		
<i>MCC upgrade at Ocean View</i>					\$ 75,000	\$ 450,000	
<i>MCC upgrade at Edmund #2</i>						\$ 75,000	\$ 350,000
<i>MCC upgrade at Mills Plant</i>							\$ 75,000
D. Pressure Reducing Stations							
E. Miscellaneous Projects							
i. Water Surge Control							
<i>Rehabilitation Surge Tanks at Glenwood</i>	\$ 28,000	\$ -	\$ 75,000				
<i>Rehabilitation Surge Tank at Paschal</i>				\$ 150,000			
ii. Street/Utility/ Meter Adjustment & Upgrade							
iii. Misc.							
<i>Repairs to Ramsdell Mixing Station</i>	\$ 35,000	\$ -	\$ 35,000				
WD Total	\$ 1,183,000	\$ 789,843	\$ 1,215,000	\$ 1,580,000	\$ 1,340,000	\$ 1,670,000	\$ 1,400,000
4. Water Treatment							
A. Nitrate Removal							
i. Glenwood							
ii. Mills							
iii. Ordunio							
<i>Ion Exchange Plant at Ordunio - Design</i>				\$ 75,000			
<i>Ion Exchange Plant at Ordunio - Construction</i>					\$ 550,000	\$ 700,000	
B. Chlorine Disinfection							
<i>New Chlorination Station at Markridge Reservoir</i>	\$ 43,000	\$ -	\$ 50,000				
C. Convert to Chloramines							
D. New Federal and State Regulations							
WT Total	\$ 43,000	\$ -	\$ 50,000	\$ 75,000	\$ 550,000	\$ 700,000	\$ -

Capital Improvement Project Program FY 15-16 Preliminary - 5-year CIP Budget	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
5. Technology							
A. Automated Meter Information (AMI) System							
<i>Install Fix Area Network</i>					\$ 550,000		
<i>Integration of AMR & Fix Area Network</i>						\$ 150,000	
B. Supervisory Control and Data Acquisition (SCADA) System							
<i>SCADA RTU Replacement (35 sites) - Design</i>	\$ 25,000	\$ 16,500	\$ 15,000	\$ 15,000			
<i>SCADA RTU Replace - Equipment & Integration</i>	\$ 149,000	\$ 75,000	\$ 470,000	\$ 315,000			
C. Graphical Information System (GIS)							
TECH Total	\$ 174,000	\$ 91,500	\$ 485,000	\$ 330,000	\$ 550,000	\$ 150,000	\$ -
6. Public Safety/Emergency Response							
A. Emergency Electrical Generators							
B. Water Storage							
<i>Seismic Sensors & Valve Actuators - Duns/Pickens</i>			\$ 100,000				
<i>Seismic Sensors & Valve Actuators - Ordunio</i>				\$ 75,000			
<i>Seismic Sensors & Valve Actuators - Oak Creek</i>					\$ 125,000		
C. Security							
<i>Security Cameras - Well Sites</i>						\$ 125,000	
<i>Security Cameras - Reservoir Sites</i>							\$ 225,000
D. Miscellaneous							
SF/ER Total	\$ -	\$ -	\$ 100,000	\$ 75,000	\$ 125,000	\$ 125,000	\$ 225,000
7. Facilities & Planning							
A. Main Office							
B. Glenwood Plant							
D. Reservoir Site Improvements							
<i>Roof Replacement at Old Encinal</i>			\$ 75,000	\$ 125,000			
<i>Pickens - Access Road Improvements</i>				\$ 75,000	\$ 500,000		
<i>Goss Canyon - Site Improvements</i>					\$ 35,000	\$ 150,000	
<i>Edmund #2 - Lower Access Road Improvements</i>						\$ 75,000	\$ 350,000
<i>Edmund #2 - Upper Access Road Improvements</i>							\$ 75,000
F & P Total	\$ -	\$ -	\$ 75,000	\$ 200,000	\$ 535,000	\$ 225,000	\$ 425,000
Capital Improvement Projects - Total	\$ 2,000,000	\$ 1,569,630	\$ 3,575,000	\$ 3,140,000	\$ 4,320,000	\$ 3,995,000	\$ 3,100,000
Budget Amount in Cashflow Model	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Amount over/under Budget	\$ -	\$ (430,370)	\$ 1,575,000	\$ 1,140,000	\$ 2,320,000	\$ 1,995,000	\$ 1,100,000

Capital Improvement Project Program FY 15-16 Final - 5-year CIP Budget	Status	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
1. Water Supply								
A. Groundwater								
i. Well Rehabilitation								
<i>Well 11 Rehabilitation</i>	Complete	\$ 65,000	\$ 61,344					
<i>Well 14 Rehabilitation</i>	Deferred	\$ 60,000	\$ -					
<i>Well 7 Rehabilitation</i>				\$ 60,000				
<i>Well 10 Rehabilitation</i>					\$ 75,000			
<i>Well 14 Rehabilitation</i>					\$ 50,000			
<i>Well 6 Rehabilitation</i>						\$ 75,000		
<i>Well 12 Rehabilitation</i>						\$ 75,000		
<i>Well 1 Rehabilitation</i>							\$ 75,000	
<i>Well 14 Rehabilitation</i>							\$ 50,000	
<i>Well 5 Rehabilitation</i>								\$ 75,000
<i>Well 9 Rehabilitation</i>								\$ 75,000
<i>Well 11 Rehabilitation</i>								\$ 75,000
ii. New Wells								
<i>Well 16 - Equipment & Pipeline - Design</i>	Carryover	\$ 85,000	\$ 81,000	\$ 60,000				
<i>Well 16 - Construction (Grant - Matching Funds)</i>	Carryover	\$ -	\$ 135,000	\$ 100,000				
iii. Studies								
B. Imported Water								
<i>CVWD/LADWP Inter. at Ordunio (Grant - Matching Funds)</i>	Carryover	\$ 125,000	\$ -	\$ 125,000				
<i>Ocean View Piping & Vaults (Grant - Matching Funds)</i>	Complete	\$ 210,000	\$ 249,676					
<i>Ocean View Chlorination St (Grant - Matching Funds)</i>			\$ -	\$ 85,000				
<i>Ocean View - Equip. & Elect (Grant - Matching Funds)</i>			\$ -	\$ 75,000				
C. Groundwater Basin Recharge								
<i>Storm Water Recharge Study (Grant - Matching Funds)</i>	Carryover	\$ 55,000	\$ 55,000	\$ 40,000				
<i>Stormwater Recharge Project - Design</i>					\$ 125,000			
<i>Stormwater Recharge Project - Construction</i>						\$ 500,000	\$ 500,000	
D. Recycled Water System								
i. Recycled Water								
ii. Membrane Bioreactor Technology								
E. Demand Management								
WS Total		\$ 600,000	\$ 582,020	\$ 545,000	\$ 250,000	\$ 650,000	\$ 625,000	\$ 225,000

Capital Improvement Project Program FY 15-16 Final - 5-year CIP Budget	Status	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
2. Water Storage								
A. Reservoir Rehabilitation								
i. Roof/Vents Rehabilitation								
<i>Oak Creek #1 - Roof/Air Vents</i>	<i>Deferred</i>				\$ 250,000			
<i>Oak Creek #2 - Roof/Air Vents</i>						\$ 250,000		
<i>Rosemont - Roof/Air Vents</i>							\$ 255,000	
<i>Markridge - Air Vents</i>								\$ 250,000
ii. Steel Reservoir Re-Coating								
iii. Concrete Reservoir Rehabilitation								
<i>Encinal Reservoir - Concrete Rehabilitation</i>					\$ 75,000			
iv. Corrosion Protection								
<i>Cathodic Protection - Replacement</i>						\$ 60,000		
v. Overflow & Drain System Upgrade								
<i>Upgrade Overflow/Drain System - Design</i>	<i>Carryover</i>	\$ -	\$ 36,000	\$ -				
<i>Ocean View Reservoir - AC Pavement</i>	<i>Complete</i>	\$ -	\$ 70,267					
<i>Ocean View Reservoir - Overflow/Drain - Construction</i>		\$ -	\$ -		\$ 450,000			
B. Reservoir Water Quality								
i. Water Mixing System								
<i>Reservoir Water Quality & Mixing System Study</i>								\$ 75,000
iv. Replace common inlet and outlet piping								
C. New Reservoir Water Storage								
WS Total		\$ -	\$ 106,267	\$ -	\$ 775,000	\$ 310,000	\$ 255,000	\$ 325,000

Capital Improvement Project Program FY 15-16 Final - 5-year CIP Budget	Status	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
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3. Water Distribution

A. Pipeline Replacement

2900 Block - Paraiso Way - 800 LF	Complete	\$ 200,000	\$ 180,942					
2900 Block - Santa Carlotta - 800 LF	Complete	\$ 200,000	\$ 180,942					
4900 Block - Glenwood - 600 LF	Complete	\$ 150,000	\$ 140,732					
2800 Block - Prospect - 600 LF	Deferred	\$ 150,000	\$ -					
4400 Block - Glenwood - 200 LF	Deferred	\$ 50,000	\$ -					
2600 Block - Harmony Place - 450 LF				\$ 115,000				
3900 Block - Park Place - 450 LF				\$ 115,000				
2700 Block - Brookhill Avenue - 700 LF				\$ 175,000				
2800 Block - Prospect & 4400 Block - Glenwood - 800 LF				\$ 200,000				
3000 - 3100 Blocks - Brookhill Avenue - 1,650 LF					\$ 430,000			
3200 - 3300 Blocks - Brookhill Avenue - 1,650 LF						\$ 430,000		
2200 Block - Honolulu Ave - 750 LF							\$ 190,000	
4900 Block - El Sereno - 350 LF							\$ 90,000	
2300 Block - Teasley - 700 LF							\$ 175,000	
2800 Block - Los Olivos - 850 LF							\$ 215,000	
2400 Block - Fairmount - 100 LF							\$ 25,000	
4800 Block - Dyer - 400 LF							\$ 100,000	
2400 & 2500 Blocks - Janet Lee - 1300 LF								\$ 340,000
3000 Block - Los Olivos - 800 LF								\$ 210,000
4600 Block - Orin - 200 LF								\$ 55,000
2000 Block - Ahlin - 200 LF								\$ 55,000
4900 Block - Caminito - 300 LF								\$ 80,000
3500 Block - Montrose - 300 LF								\$ 80,000

B. New Pipelines

C. Booster Pump System

i. Annual Pump /Motor Replacement

Eagle Canyon - Booster B	Complete	\$ -	\$ 37,454					
Encinal - Booster A	Complete	\$ 35,000	\$ 24,556					
1 - Boosters				\$ 25,000				
1 - Boosters					\$ 35,000			
2 - Boosters						\$ 70,000		
2 - Boosters							\$ 70,000	
2 - Boosters								\$ 70,000

ii. Pump Station Upgrade

Mills Plant - Aeration Tower Rehabilitation	Deferred	\$ 35,000	\$ -		\$ 35,000			
Upgrade - Paschal Booster Station inlet piping & valves						\$ 50,000	\$ 255,000	
New Booster Pump Station - Cresta Heights								\$ 75,000

Capital Improvement Project Program FY 15-16 Final - 5-year CIP Budget	Status	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
iii. VFD Pump Upgrade								
<i>VFD's & Upgrade at Paschal & Mills</i>					\$ 50,000			
iv. MCC Replacement								
<i>MCC upgrade at Oak Creek</i>	Carryover	\$ 300,000	\$ 225,217	\$ 185,000				
<i>MCC upgrade at Paschal</i>					\$ 75,000	\$ 400,000		
<i>MCC upgrade at Goss Canyon</i>						\$ 75,000	\$ 350,000	
<i>MCC upgrade at Ocean View</i>							\$ 75,000	\$ 450,000
D. Pressure Reducing Stations								
E. Miscellaneous Projects								
i. Water Surge Control								
<i>Rehabilitation Surge Tanks at Glenwood</i>	Deferred	\$ 28,000	\$ -	\$ 65,000				
<i>Rehabilitation Surge Tank at Paschal</i>							\$ 75,000	
ii. Street/Utility/ Meter Adjustment & Upgrade								
iii. Misc.								
<i>Repairs to Ramsdell Mixing Station</i>	Deferred	\$ 35,000	\$ -		\$ 35,000			
WD Total		\$ 1,183,000	\$ 789,843	\$ 880,000	\$ 660,000	\$ 1,025,000	\$ 1,620,000	\$ 1,415,000
4. Water Treatment								
A. Nitrate Removal								
i. Glenwood								
ii. Mills								
iii. Ordunio								
B. Chlorine Disinfection								
<i>New Chlorination Station at Markridge Reservoir</i>	Deferred	\$ 43,000	\$ -					\$ 75,000
C. Convert to Chloramines								
WT Total		\$ 43,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Capital Improvement Project Program FY 15-16 Final - 5-year CIP Budget	Status	Budget FY 14/15	Projected FY 14/15	Budget FY 15/16	Forecast FY 16/17	Forecast FY 17/18	Forecast FY 18/19	Forecast FY 19/20
5. Technology								
A. Automated Meter Information (AMI) System								
B. Supervisory Control and Data Acquisition (SCADA) System								
SCADA RTU Replacement (35 sites) - Design	Carryover	\$ 25,000	\$ 16,500	\$ 15,000	\$ 15,000			
SCADA RTU Replace - Equipment & Integration	Carryover	\$ 149,000	\$ 75,000	\$ 470,000	\$ 315,000			
C. Graphical Information System (GIS)								
TECH Total		\$ 174,000	\$ 91,500	\$ 485,000	\$ 330,000	\$ -	\$ -	\$ -
6. Public Safety/Emergency Response								
A. Emergency Electrical Generators								
B. Water Storage								
Seismic Sensors & Valve Actuators - Duns/Pickens		\$ -	\$ -	\$ 100,000				
Seismic Sensors & Valve Actuators - Ordunio					\$ 85,000			
Seismic Sensors & Valve Actuators - Oak Creek								\$ 150,000
C. Security								
D. Miscellaneous								
SF/ER Total		\$ -	\$ -	\$ 100,000	\$ -	\$ 85,000	\$ -	\$ 150,000
7. Facilities & Planning								
A. Main Office								
B. Glenwood Plant								
C. Mills Plant								
D. Reservoir Site Improvements								
Roof Replacement at Old Encinal						\$ 55,000		\$ 175,000
Goss Canyon - Site Improvements								\$ 125,000
5. Misc. Properties								
6. District Planning								
F & P Total		\$ -	\$ -	\$ -	\$ -	\$ 55,000	\$ -	\$ 300,000
Capital Improvement Projects - Total								
Budget Amount in Cashflow Model		\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,500,000	\$ 2,500,000
Amount over/under Budget		\$ -	\$ (430,370)	\$ 10,000	\$ 15,000	\$ 125,000	\$ -	\$ (10,000)

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 4
January 16, 2015

To: Engineering Committee
From: David S. Gould, P.E. – District Engineer
Subject: **FY 14/15 Capital Improvement Project Program Update**

ITEM:

1. Review of FY 14/15CIP Budget, Project Schedule, & Project Status

DISCUSSION:

Staff is continuing on the FY 2014/15 CIP program and attached is the proposed project schedule for the coming year.

The FY 14/15 CIP budget was \$2,000,000 which included well rehabilitation, pipeline replacement, motor control center upgrades, SCADA Upgrades, and the Crescenta Valley County Park Stormwater Feasibility Study.

a. Status - Ocean View Reservoir Overflow/Drain Pipe Project

- AC Pavement Replacement - Complete
- Pipeline Design
 - i. Hydrology/Hydraulics Design Cost - \$12,000
 - ii. Waiting on LCF on Pipe Size and proceed with Design

b. Status - Well 16 – Well Project

- Agreement - Complete
- Grant:
 - i. Agreement complete by Jan. 2015
- Design:
 - i. Pre-order Equipment – working on Shop Drawings
 - ii. Pipeline – Out to Bid
 - iii. Site Plan – Working with Glendale Planning
 - iv. Storm Drain – Working with LA County

c. Status - Ocean View Chlorination Station Project

- **E-733CS – 1 Piping and Metering Vaults:** - Complete
- **E-733CS – 2 Chlorination Building:**
 - i. Design Complete
 - ii. Out to Bid
 - iii. Pre-bid – April 1, 2015
 - iv. Award Contract – April 21, 2015
 - v. Start Construction – July 2015

- d. **E-733CS – 3 Purchase and Install Treatment Equipment:** Staff researching the purchase of treatment equipment including metering pumps, chemical storage tanks, and a chlorine analyzer. This equipment will be ordered after the final design of the new building design is approved.

- e. **E-733CS – 4 Electrical and SCADA Equipment:** This equipment shall be purchased and installed after the structure is complete. Staff estimates that this work will begin in March 2015.
- f. **E-733CS – 5 Collaborative Work Performed by CVWD Crews:** This work will be completed by CVWD crews after the building construction is finished.
- g. **E-733CS – 6 Other Work:** Currently, staff is preparing bids for contractors for the paving of the sidewalk and street adjacent to Ocean View now that piping and vault installation is complete. This work is anticipated to be completed by late March 2015.
- h. **Status - CVWD/LADWP Interconnection Project**
 - Connection from LADWP to CVWD is complete
 - Remaining project on hold until August 2015
- i. **Status - Oak Creek Motor Control Center**
 - Construction started in mid-March 2015 and completed by August 2015
- j. **Status – CVC Park – Stormwater Feasibility Study**
 - Monitoring Well Drill – Complete
 - Percolation Pit – April 2015

Prepared & Submitted by:

David S. Gould, P.E.
District Engineer

Attachments:

1. FY 14/15 CIP Budget and Project Schedule – Revised 3/26/15

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Capital Improvement Project Program FY 14/15 - Updated 3/15/15	E-job	Budget FY 14/15	Cost to date 7/1/14 - 3/15/15	Cost Committed - 3/15/15 - 6/30/15	Cost Remaining
1. Water Supply					
A. Groundwater					
i. Well Rehabilitation					
<i>Well 11 Rehabilitation</i>	E-934	\$ 65,000	\$ 61,344	\$ -	\$ 3,656
<i>Well 14 Rehabilitation (Project Removed)</i>		\$ 60,000	\$ -	\$ -	\$ 60,000
ii. New Wells					
<i>Rockhaven Well - Equipment & Pipeline - Design (Grant Funding)</i>	E-940	\$ 85,000	\$ 51,584	\$ 29,416	\$ 4,000
<i>Rockhaven Well - Equipment & Pipeline - Construction</i>	E-940	\$ -	\$ -	\$ 135,000	\$ (135,000)
iii. Studies					
B. Imported Water					
<i>CVWD/LADWP Interconnection (Grant Funding)</i>	E-766	\$ 125,000	\$ -	\$ -	\$ 125,000
<i>Ocean View Pipeline & Chlorination Station (Grant Funding)</i>	E-733	\$ 210,000	\$ 231,176	\$ 18,500	\$ (39,676)
C. Groundwater Basin Recharge					
<i>Storm Water Recharge Study (Grant Funding)</i>	M-903	\$ 55,000	\$ 52,793	\$ 2,207	\$ -
D. Recycled Water System					
i. Recycled Water					
ii. Membrane Bioreactor Technology					
E. Demand Management					
WS Total		\$ 600,000	\$ 396,897	\$ 185,123	\$ 17,980
2. Water Storage					
A. Reservoir Rehabilitation					
v. Overflow & Drain System Upgrade					
<i>Upgrade Overflow/Drain System - Design + Maintenance</i>	M-943	\$ -	\$ 15,236	\$ 20,764	\$ (36,000)
<i>Ocean View Reservoir - AC Pavement</i>	M-943	\$ -	\$ 70,267	\$ -	\$ (70,267)
<i>Ocean View Reservoir - Upgrade Overflow/Drain System - Construction</i>	M-943	\$ -	\$ -	\$ -	\$ -
WS Total		\$ -	\$ 85,503	\$ 20,764	\$ (106,267)

Capital Improvement Project Program FY 14/15 - Updated 3/15/15	E-job	Budget FY 14/15	Cost to date 7/1/14 - 3/15/15	Cost Committed - 3/15/15 - 6/30/15	Cost Remaining
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3. Water Distribution

A. Pipeline Replacement

2900 Block - Paraiso Way - 800 LF	E-947	\$ 200,000	\$ 180,942	\$ -	\$ 19,058
2900 Block - Santa Carlotta - 800 LF	E-947	\$ 200,000	\$ 180,942	\$ -	\$ 19,058
4900 Block - Glenwood - 600 LF	E-947	\$ 150,000	\$ 140,732	\$ -	\$ 9,268
2800 Block - Prospect - 600 LF (Project Removed)		\$ 150,000	\$ -	\$ -	\$ 150,000
4400 Block - Glenwood - 200 LF (Project Removed)		\$ 50,000	\$ -	\$ -	\$ 50,000

C. Booster Pump System

i. Annual Pump /Motor Replacement

Eagle Canyon - Booster B	E-941	\$ -	\$ 37,454	\$ -	\$ (37,454)
Encinal - Booster A	E-918	\$ 35,000	\$ 24,556	\$ -	\$ 10,444

ii. Pump Station Upgrade

Mills Plant - Aeration Tower Rehabilitation (Project Removed)		\$ 35,000	\$ -	\$ -	\$ 35,000
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iv. MCC Replacement

MCC upgrade at Oak Creek	E-931	\$ 300,000	\$ 112,458	\$ 112,759	\$ 74,783
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E. Miscellaneous Projects

i. Water Surge Control

Rehabilitation Surge Tanks at Glenwood (Project Removed)		\$ 28,000	\$ -	\$ -	\$ 28,000
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iii. Misc

Repairs to Ramsdell Mixing Station (Project Removed)		\$ 35,000	\$ -	\$ -	\$ 35,000
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WD Total

\$ 1,183,000 \$ 677,084 \$ 112,759 \$ 393,157

4. Water Treatment

B. Chlorine Disinfection

New Chlorination Station at Markridge Reservoir (Project Removed)		\$ 43,000	\$ -	\$ -	\$ 43,000
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WT Total

\$ 43,000 \$ - \$ - \$ 43,000

Capital Improvement Project Program FY 14/15 - Updated 3/15/15	E-job	Budget FY 14/15	Cost to date 7/1/14 - 3/15/15	Cost Committed - 3/15/15 - 6/30/15	Cost Remaining
5. Technology					
B. Supervisory Control and Data Acquisition (SCADA) System					
<i>SCADA RTU Replacement (35 sites) - Design</i>	E-939	\$ 25,000	\$ 14,500	\$ 2,000	\$ 8,500
<i>SCADA RTU Replacement - Equipment & Integration (Project Reduced)</i>	E-939	\$ 149,000	\$ 30,000	\$ 45,000	\$ 74,000
C. Graphical Information System (GIS)					
TECH Total		\$ 174,000	\$ 44,500	\$ 47,000	\$ 82,500
6. Public Safety/Emergency Response					
SF/ER Total		\$ -			
7. Facilities & Planning					
F & P Total		\$ -			
Capital Improvement Projects - Total		\$ 2,000,000	\$ 1,203,984	\$ 365,646	\$ 430,370
Budget Amount in Cashflow Model		\$ 2,000,000			
Total Projected Actual Cost			\$ -	\$ 1,569,630	

