

Farhad, Mohammad@Waterboards

From: Holmes, Kari@Waterboards
Sent: Monday, May 11, 2015 12:27 PM
To: Wyels, Wendy@Waterboards; Farhad, Mohammad@Waterboards
Subject: FW: Deuel Vocational Institute - Notice of Violation Letter Dated May 7, 2015
Attachments: DVI - 1st Quarterly Report 2015 - R5-2015-0704.pdf; Response To K. Holmes - (5-11-2015) - R5-2015-0704 - Attachments.pdf; Response To K. Holmes - (5-11-2015) - R5-2015-0704.pdf; CAB R5-2015-0704

From: Pedro Reyes [<mailto:pedro.reyes@cdcr.ca.gov>]
Sent: Monday, May 11, 2015 11:45 AM
To: Holmes, Kari@Waterboards; CentralValleySacramento
Cc: Price, Jerome@CDCCR; Vasconcellos, Edward@CDCCR; Cordano, Fred@CDCCR; Struckmann, Donald@CDCCR; Poston, Todd@CDCCR; Stanley, Jeff@CDCCR; Bettencourt, Miles (Terry)@CDCCR; Madia, Teri@CDCCR; Young, Vanessa@Waterboards
Subject: Deuel Vocational Institute - Notice of Violation Letter Dated May 7, 2015

Ms. Holmes,

Attached please find a response to your letter dated May 7, 2015, the missing 2015 Quarterly Report, and e-mail confirmations for the RO Plant Spare Parts Status Report, and the MBR Modules Replacement Time Schedule. Due to technical difficulties with my workstation and the internal network, the attachment of the Quarterly Report did not take place. Effective today, notifications to the Water Board will include date of failure and anticipated date of return to operation.

Date of Title of Submittal	May 11, 2015 – Response to K. Holmes Letter, DVI 1 st Quarterly Report – R5-2015-0705
Regulatory Program	Title 27
Unit	Compliance and Enforcement
Regulated Party (Discharger)	California Department of Corrections and Rehabilitation
Facility Name	Deuel Vocational Institute
County	San Joaquin

Pedro B. Reyes
California Department of Corrections & Rehabilitation
Departmental Construction & Maintenance Supervisor
Facilities Planning, Construction, and Management
Facilities Asset Management Branch
Phone: (916) 255-0516
Fax: (916) 255-3022

**DEUEL VOCATIONAL INSTITUTE
CLEAN UP AND ABATEMENT ORDER R5-2015-0704
OPERATION OF CLASS II SURFACE IMPOUNDMENT
QUARTERLY UPDATES FOR 2015**

WORK COMPLETED FROM JANUARY 1, 2015 THROUGH APRIL 30, 2015

- DVI started providing bottled water to staff and inmates on March 19, 2015. Process continues as long as the RO Plant is not operational
- Brine water delivery to East Bay Municipal Utility District (EBMUD) began on February 11, 2015
- February 13, 2015 – CDCR Facilities Planning, Construction and Management (FPCM) submits an Engineering Request to evaluate operation of the RO Plant
- February 27, 2015 – FPCM modifies Ford's contract to include 50 Frac tanks for the storage of brine water
- Water Balance Report submitted on February 24, 2015
- FPCM contracted with Dewberry Consultants to perform assessment of RO Plant. Assessment began on March 10, 2015
- Ford delivered approximately 712,000 gallons of brine water to EBMUD
- April 8, 2015 – Three Raw Water pumps failed. Repairs were completed on April 20, 2015
- Contract to repair Well #5 has been expedited. Previous efforts to repair the well were not successful. Contractor was not able to obtain a Performance Bond. Office of Business Services is expediting the advertisement of a new contract
- April 23, 2015 – Reverse Osmosis Plant is operational
- April 25, 2015 – A purge hose failed. Plant is not operational. Hose repaired on April 27, 2015. Plant back on line on April 27, 2015
- April 27, 2015 – DVI declares emergency for the repairs of Well #9. CDCR Facilities Management starts process for well emergency repairs
- RO Plant operational for the remainder of April 2015

WORK TO BE CONDUCTED MAY 1, 2015 THROUGH JUNE 30, 2015

- Dewberry Consultant to complete assessment of RO Plant
- Ford Construction will complete delivery of RO brine water from the Frac tanks to EBMUD
- Ford Construction will remove sludge from Ponds 1, 2, 3, and #4
- DVI/FPCM will procure RO Spare Parts and store on site
- DVI/FPCM will develop specification for a RO Plant repair and maintenance contract
- DVI will continue with the process to refurbish Well #5
- FPCM will develop an emergency contract for the repair of Well #9
- Ford Construction will remove all Frac Tanks from DVI

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my knowledge and on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Pedro Reyes
DVI Regional Manager



Date

Farhad, Mohammad@Waterboards

From: Jaime Rodriguez <jaime.rodriguez1@cdcr.ca.gov>
Sent: Thursday, July 30, 2015 12:40 PM
To: WB-RB5S-CentralValleySacramento
Cc: Vasconcellos, Edward@CDCR; Bettencourt, Miles (Terry)@CDCR; Elliott, Tom@CDCR; Mullins, Daniel@CDCR; Stanley, Jeff@CDCR; Reyes, Pedro@CDCR; Madia, Teri@CDCR; Farhad, Mohammad@Waterboards; Farhad, Mohammad@Waterboards
Subject: Quarterly report
Attachments: MX-M453N_20150730_143832.pdf

Date of Title of Submittal	July 29, 2015 – Quarterly Report R5-2015-0704
Regulatory Program	NPDES
Unit	Compliance and Enforcement
Regulated Party (Discharger)	California Department of Corrections and Rehabilitation
Facility Name	Deuel Vocational Institution
County	San Joaquin

Cc: Mohammed Farhad

Jaime Rodriguez
Chief Engineer I
DVI-Plant Operations
(209) 835-4141 ext.5854
jaime.rodriguez1@cdcr.ca.gov

**DEUEL VOCATIONAL INSTITUTION
WASTE WATER TREATMENT PLANT / REVERSE OSMOSIS PLANT
CLEAN UP AND ABATEMENT ORDER #R5-2015-0704
SECOND QUARTERLY UPDATE FOR 2015**

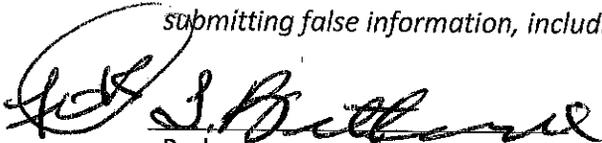
WORK COMPLETED FROM APRIL 1, 2015 THROUGH JUNE 30, 2015

- DVI provided bottled water to staff and inmates until April 27, 2015.
- Dewberry Consultants continue to perform an assessment of RO Plant. The complete report will be submitted within the next 120 days.
- RO Plant started operation on April 23, 2015 and is producing potable water for DVI.
- On April 25, 2015 the plant was shut down due to a Brine Concentrator blow down line. DVI staff repaired the line and the plant was restarted on April 27, 2015.
- On May 2, 2015, RO Plant was not operational due to a communication failure that led to underground process pipe rupture. Concrete slab had to be removed to repair the pipe. The RO Plant was restarted on May 7, 2015.
- Submitted Purchase Order Request for the purchase of the wastewater module membranes.
- Replaced second RO train membranes the week of July 20th.

WORK TO BE CONDUCTED JULY 1, 2015 THROUGH SEPTEMBER 30, 2015

- Establishing new contract with Dewberry Consultant to complete Mandate # 7 – Third Party Selection Report.
- Dewberry Consultant upon establishing contract will develop the Third Party Evaluation of the Operation and Maintenance of the Facility as required by Mandate #9.
- DVI/FPCM will procure RO Plant Spare Parts and store on site starting with FY 2015/16.
- Scheduling a Reverse Osmosis Plant shut down to clean the mesh pads in the Brine Concentrator and replace an elbow on the Brine system at the end of August.
- Replace Crystal lamp sleeves on UV trains in waste water plant.
- Annual cleaning on cooling tower #2.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my knowledge and on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


Pedro Reyes
DVI Regional Manager

7/30/15
Date

Farhad, Mohammad@Waterboards

From: Jaime Rodriguez <jaime.rodriguez1@cdcr.ca.gov>
Sent: Wednesday, January 27, 2016 2:28 PM
To: WB-RB5S-CentralValleySacramento
Cc: Kenny, Brendan@Waterboards; Gaughan, Nathan@CDCR; Schumacher, Tony@CDCR; Reyes, Pedro@CDCR; Elliott, Tom@CDCR; Farhad, Mohammad@Waterboards
Subject: Quarterly Enviromental Report
Attachments: 3rd Quarter Report CLEAN UP AND ABATEMENT ORDER #R5-2015-0704.pdf; 4th Quarter Report CLEAN UP AND ABATEMENT ORDER #R5-2015-0704.pdf

Date of Title of Submittal	January 27, 2016 – R5-2015-0704 – Mandate #10 – Quarterly Report
Regulatory Program	NPDES
Unit	Compliance and Enforcement
Regulated Party (Discharger)	California Department of Corrections and Rehabilitation
Facility Name	Deuel Vocational Institution – CIWQS ID 642462
County	San Joaquin

Jaime Rodriguez
Chief Engineer I
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jaime.rodriguez1@cdcr.ca.gov

**DEUEL VOCATIONAL INSTITUTE
REVERSE OSMOSIS PLANT
CLEAN UP AND ABATEMENT ORDER #R5-2015-0704
THIRD QUARTERLY UPDATE FOR 2015**

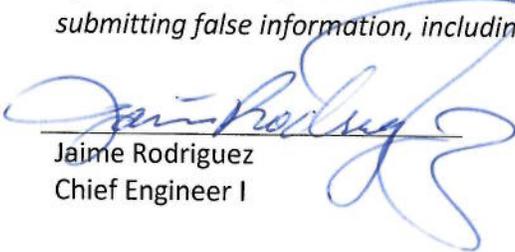
WORK COMPLETED FROM JULY 1, 2015 THROUGH SEPTEMBER 30, 2015

- Dewberry Consultants continue to perform an assessment of RO Plant. The complete report will be submitted within the next 120 days.
- On July 6, 2015, the RO Plant went down at 2220 due to a power outage. Plant was restarted on July 7, 2015 at 0800.
- On July 8, 2015, the RO Plant was put into hot standby at 1055 due to a distillate line blew out. Repairs were completed and RO Plant was put back into service at 1900.
- July 10, 2015, the RO Plant was put into hot standby at 0307 due to an elbow from the heat exchanger came apart. Repairs were completed and RO Plant was put back into service at 2250.
- July 12, 2015, the RO Plant was put into hot standby at 0418 due to communication failure. RO Plant was put back into service at 0822.
- July 17, 2015, the RO Plant was put into hot standby at 1415 due to communication failure. RO Plant was put back into service at 1520.
- July 18, 2015, secured RO train #2 for membrane exchange.
- July 23, 2015, removed all membranes from RO train #2.
- July 24, 2015, installed new membranes in RO train #2.
- August 6, 2015, RO Plant went down at 2320 due to a power outage. Power restored, the RO Plant in hot standby at 0700. The RO Plant was put back in service at 1145.
- August 10, 2015, RO Plant was secured at 1225 due to the Brine Concentrator not operating efficiently. Going to drain down the Brine Concentrator and inject caustic in order to clean tubes inside the Brine Concentrator (de-scale). Well water supplying the institution. Bottled water is being provided to Inmates and staff. Plant staff will commence repairs to various plant systems.
- August 20, 2015 Clean Harbors arrived to start hydro blasting Brine Concentrator tubes.
- September 11, 2015, RO Plant was put back into service at 1930.
- September 12, 2015, RO Plant secured at 1530 due to leak on a flange. Repairs completed and Ro Plant back in service at 2230.
- On May 2, 2015, RO Plant was not operational due to a communication failure that led to underground process pipe rupture. Concrete slab had to be removed to repair the pipe. The RO Plant was restarted on May 7, 2015.
- Submitted Purchase Order Request for the purchase of the wastewater module membranes.
- Ford Construction: Brine concentrate deliveries to East Bay Municipal Utility District for the Quarter was July 307,760- August 80,380- September 118,020 for a total of 517,160 gallons.

WORK TO BE CONDUCTED OCTOBER 1, 2015 THROUGH DECEMBER 31, 2015

- Establishing new contract with Dewberry Consultant to complete Mandate # 7 – Third Party Selection Report.
- Upon contract approval, Dewberry Consultant will develop the Third Party Evaluation of the Operation and Maintenance of the Facility as required by Mandate #9.
- DVI/FPCM will procure RO Plant Spare Parts and store on site starting with the 2015/2016 fiscal year.
- FPCM will finalize the purchase of the membranes.
- Amerine will be working on Well #5 and Well #9.
- Ford Construction will continue to remove sludge from the ponds and haul brine to EBMUD.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my knowledge and on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


Jaime Rodriguez
Chief Engineer I

1-27-2016
Date

**DEUEL VOCATIONAL INSTITUTE
REVERSE OSMOSIS PLANT
CLEAN UP AND ABATEMENT ORDER #R5-2015-0704
FOURTH QUARTERLY UPDATE FOR 2015**

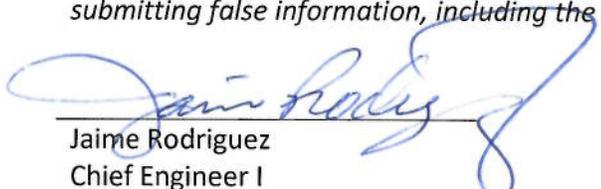
WORK COMPLETED FROM OCTOBER 1, 2015 THROUGH DECEMBER 31, 2015

- On October 2, 2015, RO Plant was put into hot standby at 0310 due to expansion joint leaking on heat exchanger. Repairs to expansion joint completed, RO Plant back in service at 1130.
- On October 9, 2015, RO Plant was put into hot standby at 1415 due to communication failure. RO Plant back in service at 1530.
- On October 12, 2015, RO Plant was put into hot standby at 0820 due to communication failure. RO Plant back in service at 1315.
- On October 20, 2015, RO Plant was put into hot standby at 0615 due to electrical testing of F-4 circuit. RO Plant back in service at 1300.
- On October 21, 2015, RO Plant was put into hot standby at 0910 due to generator being service due to plant being on generator power due to F-4 circuit being worked on. RO Plant back in service at 1300.
- November 10, 2015 Amerine on site to video well #5
- On November 13, 2015, RO Plant was put into hot standby at 0615 due to electrical issues with F-4 feeder. RO Plant back in service at 1900.
- On November 18, 2015, RO Plant shut down due to PG&E power outage.
- November 19, 2015, power restored at 0125 put RO Plant into hot standby.
- November 19, 2015, 0930 Amerine on site working on well #5.
- November 19, 2015, at 1440, RO Plant is back in service.
- November 24, 2015 RO Plant was put into hot standby at 0750 due to electrical being secured for the F-3 feeder project. RO Plant back in service at 1330.
- November 28, 2015, Amerine flushing well #5.
- November 30, 2015, RO Plant was put into hot standby at 0945 due to the vapor compressor building vent fan motor failed. RO Plant back in service at 1305.
- December 3, 2015, Amerine on site to work on well #5.
- December 4, 2015, RO Plant was put into hot standby at 1419 due to high vapor compressor motor temperature. RO Plant back in service at 1630.
- December 10, 2015, RO Plant tripped due to loss of electrical power. Electrical power restored at 1100 and put RO Plant into hot standby. RO Plant back in service at 1300.
- December 17, 2015, RO Plant was put into hot standby at 0100 due to communication failure. RO Plant back in service at 0231.
- December 21, 2015, RO Plant was put into hot standby at 0950 due to UPS issues to the PLC's. RO Plant back in service at 1715.
- Ford Construction: Brine concentrate deliveries to East Bay Municipal Utility District for the Quarter was October 174,580- November 183,440- December 226,010 for a total of 584,030 gallons.

WORK TO BE CONDUCTED JANUARY 1, 2016 THROUGH MARCH 31, 2016

- Establishing new contract with Dewberry Consultant to complete Mandate # 7 – Third Party Selection Report.
- Upon contract approval, Dewberry Consultant will develop the Third Party Evaluation of the Operation and Maintenance of the Facility as required by Mandate #9.
- DVI/FPCM will procure RO Plant Spare Parts and store on site starting with the 2015/2016 fiscal year.
- Ford Construction to continue to haul brine to EBMUD.
- Amerine to work on well #5 and well #9.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my knowledge and on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Jaime Rodriguez
Chief Engineer I

1-27-2016

Date

Farhad, Mohammad@Waterboards

From: Rodriguez, Jaime (DVI)@CDCR <Jaime.Rodriguez1@cdcr.ca.gov>
Sent: Thursday, April 07, 2016 4:18 PM
To: Remick, David@Waterboards
Cc: Sahota, Bhupinder@Waterboards; Gaughan, Nathan@CDCR; Reyes, Pedro@CDCR; Schumacher, Tony@CDCR; Elliott, Tom@CDCR; Tittle, Allan@CDCR; WB-RB55-CentralValleySacramento; Kenny, Brendan@Waterboards
Subject: Quarterly Report #01-10-15C-002
Attachments: DEUEL VOCATIONAL INSTITUTE - 1st Quarter Report to Regional Water Board 2016 (01-10-15C-002).docx

Please see attached quarterly update report in regards to citation #01-10-15C-002 Directive #8

Jaime Rodriguez
Chief Engineer I
DVI-Plant Operations
(209) 835-4141 ext.5854
jaime.rodriquez1@cdcr.ca.gov

DEUEL VOCATIONAL INSTITUTION
CITATION #01-10-15C-002
REVERSE OSMOSIS PLANT - CORRECTIVE ACTION PLAN – DIRECTIVE #8
FIRST QUARTER UPDATE FOR 2016

WORK COMPLETED FROM JANUARY 1, 2016 THROUGH MARCH 31, 2016

- DVI provide bottled water to staff and inmates from
- Ford Construction delivered the following gallons of brine water to EBMUD:
 - 127,540 in January 2016
 - 121,00 in February 2016
 - 127,540 in March 2016
- Dewberry Consultants continue to perform an assessment of RO Plant. The complete report will be submitted within the next 120 days
- February 1, 2016, at 0845 RO Plant in hot standby due to doing a clean in place on the heat exchanger.
- February 1, 2016, at 1552 RO Plant back online producing water to the institution.
- February 18, 2016, at 2330 RO Plant down due to electrical power loss caused by PG&E.
- February 19, 2016, at 1000 RO Plant back online producing water to the institution.
- February 24, 2016, at 1600 RO Plant in hot standby due to lack of water for auxiliary pump seals throughout the plant. This was cause due to outside contractor damaging a potable water line inside the institution.
- February 25, 2016, RO Plant up and down due to lack of water for pump seals. Contractor working on broken water line.
- February 26, 2016, RO Plant in hot standby due to lack of water for pump seals. Contractor working on broken water line.
- February 27, 2016, RO Plant in hot standby due to lack of water for pump seals. Contractor working on broken water line.
- February 28, 2016, RO Plant in hot standby due to lack of water for pump seals. Contractor working on broken water line.
- February 29, 2016, at 1620 RO Plant online producing potable water to the institution.
- March 24, 2016, at 0800 RO Plant secured for maintenance. Plant is scheduled to be offline until April 14, 2016.
- Amerine completed all work on well #5 and well #9.
- RO Plant Staff submitted list for spare parts.

WORK TO BE CONDUCTED APRIL 1, 2016, THROUGH JUNE 30, 2016

- Ford Construction will continue to transport brine to EBMUD.
- Plant staff will perform maintenance on various systems during our scheduled outage which will be from March 24, 2016 until April 14, 2016. Also, Clean Harbors will be hydro blasting the vertical tubes in the Brine Concentrator as well as the lower chamber of the vessel.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my knowledge and on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Pedro Reyes
DVI Regional Manager

Date

Farhad, Mohammad@Waterboards

From: Jaime Rodriguez <jaime.rodriguez1@cdcr.ca.gov>
Sent: Friday, April 08, 2016 8:37 AM
To: Remick, David@Waterboards
Cc: Sahota, Bhupinder@Waterboards; Gaughan, Nathan@CDCR; Reyes, Pedro@CDCR; Schumacher, Tony@CDCR; Elliott, Tom@CDCR; Tittle, Allan@CDCR; WB-RB5S-CentralValleySacramento; Kenny, Brendan@Waterboards
Subject: RE: Quarterly Report #01-10-15C-002
Attachments: DEUEL VOCATIONAL INSTITUTE - 1st Quarter Report to Regional Water Board 2016 (01-10-15C-002).docx

My bad, forgot to add water distribution dates.

Jaime Rodriguez
Chief Engineer I
DVI-Plant Operations
(209) 835-4141 ext.5854
jaime.rodriguez1@cdcr.ca.gov

From: Rodriguez, Jaime (DVI)@CDCR
Sent: Thursday, April 07, 2016 4:18 PM
To: Remick, David@Waterboards
Cc: Sahota, Bhupinder@Waterboards; Gaughan, Nathan@CDCR; Reyes, Pedro@CDCR; Schumacher, Tony@CDCR; Elliott, Tom@CDCR; Tittle, Allan@CDCR; WB-RB5S-CentralValleySacramento; Kenny, Brendan@Waterboards
Subject: Quarterly Report #01-10-15C-002

Please see attached quarterly update report in regards to citation #01-10-15C-002 Directive #8

Jaime Rodriguez
Chief Engineer I
DVI-Plant Operations
(209) 835-4141 ext.5854
jaime.rodriguez1@cdcr.ca.gov

DEUEL VOCATIONAL INSTITUTION
CITATION #01-10-15C-002
REVERSE OSMOSIS PLANT - CORRECTIVE ACTION PLAN – DIRECTIVE #8
FIRST QUARTER UPDATE FOR 2016

WORK COMPLETED FROM JANUARY 1, 2016 THROUGH MARCH 31, 2016

- DVI provide bottled water to staff and inmates: January, no water distribution, February, 24, 26, and the 29. March, 25 and 28.
- Ford Construction delivered the following gallons of brine water to EBMUD:
 - 127,540 in January 2016
 - 121,00 in February 2016
 - 127,540 in March 2016
- Dewberry Consultants continue to perform an assessment of RO Plant. The complete report will be submitted within the next 120 days
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- Amerine completed all work on well #5 and well #9.
- RO Plant Staff submitted list for spare parts.

WORK TO BE CONDUCTED APRIL 1, 2016, THROUGH JUNE 30, 2016

- Ford Construction will continue to transport brine to EBMUD.
- Plant staff will perform maintenance on various systems during our scheduled outage which will be from March 24, 2016 until April 14, 2016. Also, Clean Harbors will be hydro blasting the vertical tubes in the Brine Concentrator as well as the lower chamber of the vessel.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my knowledge and on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Pedro Reyes
DVI Regional Manager

Date

Farhad, Mohammad@Waterboards

From: Nathan Gaughan <nathan.gaughan@cdcr.ca.gov>
Sent: Friday, July 29, 2016 1:47 PM
To: WB-RB5S-CentralValleySacramento; Farhad, Mohammad@Waterboards
Cc: Holmes, Kari@Waterboards; Reyes, Pedro@CDCR; Yessen, Teri@CDCR; Perri, Laurie@CDCR; Stanley, Jeff@CDCR; Larabee, Gregor@CDCR; Price, Jerome@CDCR; Rodriguez, Jaime (DVI)@CDCR; Schumacher, Tony@CDCR; Elliott, Tom@CDCR; Mullins, Daniel@CDCR; Hysen, Deborah@CDCR
Subject: Deuel Vocational Institution Second Quarter Response to DVI-CAO-R5-2015-0704
Attachments: DVI-CAO-R5-2015-0704 2nd Quarter Progress Report DVI 7.29.16.pdf

**Attention Mohammed Farhad, Compliance Section, NPDES Unit
California Department of Corrections and Rehabilitation
Deuel Vocational Institution
San Joaquin County,
CIWQS Place ID 642462**

Good afternoon,

Attached you will find Deuel Vocational Institution's Second Quarter Progress Report in accordance with DVI-CAO-R5-2015-0704. If you have any questions, please contact Jaime Rodriguez, Chief Engineer I, at (209) 835-4141 extension 5854.

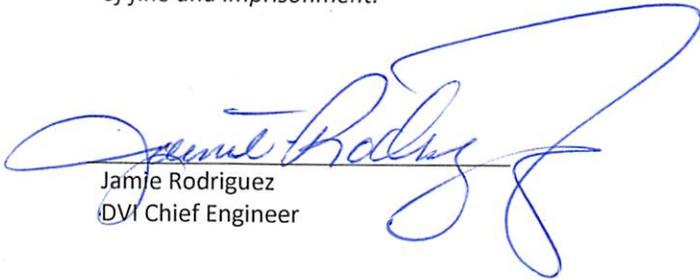
Nathan T. Gaughan
Associate Warden, Business Services
Deuel Vocational Institution
California Department of Corrections and Rehabilitation
Desk: (209) 830-3855
Cell: (209) 640-2837
Nathan.Gaughan@cdcr.ca.gov



**DEUEL VOCATIONAL INSTITUTION
 CLEAN UP AND ABATEMENT ORDER #R5-2015-0704
 QUARTERLY UPDATE FOR 2016
 WORK COMPLETED FROM APRIL 1, 2016 THROUGH JUNE 30, 2016**

Directive	Status	Estimated Timeline for Completion
1.	Ongoing	Ongoing
2a.	Ongoing	Ongoing
2b.	Ongoing	Ongoing
2c.	Ongoing	Ongoing
3.	In Progress	August 31, 2016
4.	In Progress	August 31, 2016
5.	In Progress	September 15, 2016
6.	Complete	Completed September 1, 2015
7.	Complete	Completed September 30, 2015
8.	In Progress	MBR Report-August 31, 2016 O&M Manual-September 15, 2016
9.	Complete	Completed June 20, 2016
10.	Ongoing	Incomplete reports to be resubmitted by August 31, 2016

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Jamie Rodriguez
 DVI Chief Engineer

7-29-2016
 Date

**DEUEL VOCATIONAL INSTITUTION
CLEAN UP AND ABATEMENT ORDER #R5-2015-0704
QUARTERLY UPDATE FOR 2016
WORK COMPLETED FROM APRIL 1, 2016 THROUGH JUNE 30, 2016**

DIRECTIVE 1:

The Discharger shall immediately comply with all aspects of WDRs Order and Monitoring and Reporting Program R5-2014-0014, including complying with effluent limits.

STATUS:

Ongoing

ESTIMATED TIMELINE FOR COMPLETION:

Compliance will adhere to the requirements of R5-2014-0014.

BUDGET (if applicable):

DVI's operating budget.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

On June 2, 2016 the MBR filter module replacement was completed. Additional activities performed included the replacement of the MBR filter flexible discharge lines on June 30, 2016, as the piping supplied by Evoqua was not holding a seal. The leakage of biological floc was causing positive coliform results at the UVS-002 location. Following replacement of the flexible discharge lines the coliform results have been non-detect.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

The Operation and Maintenance (O&M) Manual as well as the Standard Operating Procedures (SOPs) for the wastewater plant are being updated to reflect current conditions. These procedures will be followed to ensure the plant is effectively maintained in order to comply with all aspects of the WDRs.

WORK TO BE COMPLETED NEXT QUARTER:

DVI will be obtaining bids for the replacement of the Drum Screens. In addition, DVI will solicit bids for the installation of an overhead crane. This crane will facilitate the removal of the membranes for required maintenance.

**DEUEL VOCATIONAL INSTITUTION
CLEAN UP AND ABATEMENT ORDER #R5-2015-0704
QUARTERLY UPDATE FOR 2016
WORK COMPLETED FROM APRIL 1, 2016 THROUGH JUNE 30, 2016**

DIRECTIVE 2a:

In event that the RO plant is taken off-line for maintenance for more than 24 hours, the Discharger shall immediately notify the Central Valley Water Board and state when the RO plant will return to operation.

STATUS:

Ongoing

ESTIMATED TIMELINE FOR COMPLETION:

The timeline identified in the directive will be followed every time the RO Plant is taken offline for maintenance for more than 24 hours.

BUDGET (if applicable):

N/A

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

The Reverse Osmosis (RO) Plant was taken offline for maintenance on March 24, 2016. The Central Valley Water Board was notified on March 24, 2016. The plant was scheduled to return to normal operation on April 14, 2016; however, leaks in the tubes of the brine concentrator required additional repairs. Repairs were completed and the plant was restarted on May 19, 2016.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

DVI will immediately notify the Central Valley Water Board in the event the RO Plant is taken offline for maintenance for more than 24 hours and will state when the RO plant will return to operation.

WORK TO BE COMPLETED NEXT QUARTER:

In the event that the RO plant is taken offline for maintenance for more than 24 hours, the Discharger shall immediately notify the Central Valley Water Board and state when the RO plant will return to operation.

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DIRECTIVE 2b:

In the event that the RO plant is taken off-line for more than seven days, the Discharger shall immediately submit a time schedule for when the RO plant will return to operation. In addition, beginning on the eighth day after the RO plant is taken off-line, the Discharger shall conduct three species chronic toxicity testing, as specified in MRP V.B. of WDRs R5-2014-0014, to determine whether the effluent is contributing chronic toxicity to the receiving water due to the RO plant being off-line. The chronic toxicity monitoring results shall be reported to the Central Valley Water Board within 15 days following completion of the test and shall contain an updated chronology of chronic toxicity test results expressed in TUC, organized by test species, and type of test (survival, growth or reproduction).

STATUS:

Ongoing

ESTIMATED TIMELINE FOR COMPLETION:

The timeline identified in the directive will be followed every time the RO Plant is taken offline for maintenance for more than 7 days.

BUDGET (if applicable):

DVI's operating budget.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

The RO Plant was taken offline for maintenance on March 24, 2016. The Central Valley Water Board was notified on March 24, 2016. The plant was scheduled to return to normal operation on April 14, 2016; however, leaks in the tubes of the brine concentrator required additional repairs. Repairs were completed and the plant was restarted on May 19, 2016. Sampling was conducted on March 31, 2016; however, DVI failed to conduct the required three species chronic toxicity testing as specified in Monitoring and Reporting Program V.B. of WDRs R5-2014-0014. Once this shortcoming was identified, the required three species chronic toxicity testing was conducted on April 5, 2016. The results of the tests submitted by Alpha Lab can be found in the second quarter eSMR monitoring report.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

In the event the RO plant is taken offline for more than 7 days, DVI will immediately submit a time schedule for when the RO plant will return to operation, as well as perform and submit testing as required by the directive.

WORK TO BE COMPLETED NEXT QUARTER:

In the event that the RO plant is taken offline for more than 7 days during the next quarter, DVI will immediately submit a time schedule for when the RO plant will return to operation, as well as perform and submit testing as required by the directive.

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DIRECTIVE 2c:

As of 10 April 2015, if the RO plant is off-line for more than seven days, then the Discharger shall provide alternate drinking water to inmates and staff, as required by Citation No. 01-10-15C-002 from the State Water Resources Control Board Division of Drinking Water to Deuel Vocational Institution. Within one day of providing alternate drinking water, the Discharger shall notify Board staff that it has done so.

STATUS:

Ongoing

ESTIMATED TIMELINE FOR COMPLETION:

The timeline identified in the directive will be followed every time the RO Plant is taken offline for more than 7 days.

BUDGET (if applicable):

DVI's operating budget.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

DVI has a bottled water contract in place with a local provider. DVI maintains a stock of bottled water on hand in the event the RO plant is offline. The vendor delivers a fresh supply of water as the stock begins to deplete. The RO Plant was offline from March 24, 2016 to May 19, 2016. The Central Valley Water Board was notified on March 24, 2016. DVI provided bottled water from March 24, 2016 to May 22, 2016.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

DVI maintains a stock of bottled water on hand in the event the RO plant is offline. Additionally, a bottled water contract is in place to replenish the supply as needed.

WORK TO BE COMPLETED NEXT QUARTER:

In the event that the RO plant is taken offline for more than 7 days during the next quarter, DVI will provide alternate drinking water to inmates and staff. In addition, DVI will notify the Central Valley Water Board within one day of providing alternate drinking water.

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DIRECTIVE 3:

By 1 May 2015, the Discharger shall submit a RO Plant Spare Parts Status report documenting that the RO plant has adequate spare parts available, describe redundancy and/or features in place for continuous operation, and an action plan containing a schedule to prevent chronic toxicity when the RO plant is taken off-line for maintenance.

STATUS:

In Progress

ESTIMATED TIMELINE FOR COMPLETION:

August 31, 2016

BUDGET (if applicable):

DVI's operating budget.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

A RO Plant Spare Parts Status report was submitted to the Board on May 1, 2015 but was missing information required by the directive. A purchase order for spare parts has been issued to U.S. Control Group on June 8, 2016, and a copy has been forwarded to the Central Valley Water Board.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

The RO Plant Spare Parts Status report is in the process of being revised to include information required by the directive and will include documentation that the RO plant has adequate spare parts available, describe redundancy and/or features in place for continuous operation, and an action plan containing a schedule to prevent chronic toxicity when the RO plant is taken offline for maintenance.

WORK TO BE COMPLETED NEXT QUARTER:

The revised RO Plant Spare Parts Status report will be revised and submitted by August 31, 2016. Spare parts have been ordered and are expected to arrive on or before September 16, 2016.

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DIRECTIVE 4:

By 1 May 2015, the Discharger shall submit a MBR Modules Replacement Time Schedule for replacing membrane bioreactor (MBR) modules, which shall be replaced no later than 31 March 2016. The schedule shall include the process for all contracting actions necessary to complete the work.

STATUS:

In Progress

ESTIMATED TIMELINE FOR COMPLETION:

August 31, 2016

BUDGET (if applicable):

\$497,785, Facilities Asset Management Branch Special Repair fund.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

A membrane bioreactor (MBR) Modules Replacement Time Schedule was submitted to the Board on May 1, 2015 but was missing information required by the directive. Membrane installation was completed on June 2, 2016.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

The MBR Modules Replacement Time Schedule is in the process of being revised to provide a response detailing the tasks, dates, and associated costs of the MBR Modules Replacement.

WORK TO BE COMPLETED NEXT QUARTER:

The revised MBR Modules Replacement Time Schedule will be revised and submitted by August 31, 2016.

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DIRECTIVE 5:

By 1 June 2015, the Discharger shall update and submit the Facility's Operation and Maintenance (O&M) Manual and Standard Operating Procedures (SOPs) to maximize efficiency of the MBR under current operating conditions such that the wastewater treatment plant effluent will meet all requirements of WDRs Order R5-2014-0014.

STATUS:

In Progress

ESTIMATED TIMELINE FOR COMPLETION:

September 15, 2016.

BUDGET (if applicable):

\$59,500, Facilities Asset Management Branch Special Repair fund.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

Existing O&M Manuals were submitted to the Board on May 20, 2015. These manuals were considered incomplete as they did not reflect existing wastewater plant operations. Dewberry, a consultant engineering company, was hired to perform an assessment of the plant and develop the O&M Manual and SOPs. During the reporting period, Dewberry was in the process of developing drafts of the O&M and SOPs.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

Stakeholders at CDCR have been identified to review the draft documents once received by Dewberry. A SharePoint site and Bluebeam software will be utilized to efficiently collect comments and facilitate prompt review of the O&M Manual and SOPs.

WORK TO BE COMPLETED NEXT QUARTER:

The drafts will be reviewed, finalized and submitted to the Central Valley Water Board by September 15, 2016.

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DIRECTIVE 6:

By 1 September 2015, the Discharger shall submit a Time Schedule for Cleaning and Properly Maintaining Facility Grounds for either removing and/or adequately storing broken and unused equipment, non-operational vehicles, metal debris and dumpster bins, to assure protection of groundwater and surface water quality.

STATUS:

This Directive was completed on September 1, 2015.

ESTIMATED TIMELINE FOR COMPLETION:

This Directive is complete.

BUDGET (if applicable):

N/A

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE

DVI has an operating procedure in place to ensure waste and debris are disposed of properly.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

This Directive is complete.

WORK TO BE COMPLETED NEXT QUARTER:

DVI has an operating procedure in place to ensure waste and debris are disposed of properly.

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DIRECTIVE 7:

By 1 October 2015, the Discharger shall submit a Third Party Selection Report. The Discharger shall contract with a qualified Professional Engineer or Registered Geologist third party to complete the evaluation required by Item #9, below. The report due on 1 October 2015 shall contain the name of the selected third party, their statement of qualifications, and the contract for services.

STATUS:

This Directive was completed on September 30, 2015.

ESTIMATED TIMELINE FOR COMPLETION:

This Directive is complete.

BUDGET (if applicable):

Facilities Asset Management Branch Special Repair fund.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

Directive is complete. No further action is required.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

Directive is complete. No further action is required.

WORK TO BE COMPLETED NEXT QUARTER:

Directive is complete. No further action is required.

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DIRECTIVE 8:

By 1 May 2016, the Discharger shall submit a MBR Modules Replacement Final Report and updated O&M Manual. The Replacement Report shall document that the MBR modules have been replaced and are operational. The updated O&M Manual shall contain procedures to ensure that the newly installed MBR modules are maintained properly and in accordance with the manufacturer's recommendations.

STATUS:

In Progress

ESTIMATED TIMELINE FOR COMPLETION:

MBR Modules Replacement Final Report-August 31, 2016
Updated O&M Manual and SOPs-September 15, 2016

BUDGET (if applicable):

\$59,500, Facilities Asset Management Branch Special Repair fund.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

The membranes were custom fabricated during the months of March and April, 2016. During the months of May and June, 2016 the membranes were installed. Dewberry, a consultant engineering company, continued the process of plant assessment and development of the O&M Manual and SOPs.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

Stakeholders at CDCR have been identified to review the draft documents once received by Dewberry. A SharePoint site and Bluebeam software will be utilized to efficiently collect comments and facilitate prompt review of the O&M Manual and SOPs.

WORK TO BE COMPLETED NEXT QUARTER:

The MBR Modules Replacement Final Report will be developed and detail the tasks, dates, and associated costs of the MBR Modules Replacement by August 31, 2016. The O&M Manual and SOP drafts will be reviewed, finalized and submitted to the Central Valley Water Board by September 15, 2016.

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DIRECTIVE 9:

By 1 June 2016, the Discharger shall submit a Third Party Evaluation of the Operation and Maintenance of the Facility, which includes recommendations on how to adequately operate and maintain the Facility. The review shall be completed by the individual identified in the report required by Item #7, above. At a minimum, the items listed below shall be reviewed and evaluated. The Evaluation shall contain recommendations for any needed improvements.

- a. Appropriate staffing levels for the Facility's operations;*
- b. Appropriate staffing levels for the Facility's maintenance;*
- c. Redundancy processes and/or features for the Facility and RO Plant to ensure compliance with WDRs;*
- d. The Facility's treatment capacity at maximum projected flows in the summer and winter;*
- e. The backlog of corrective and preventive maintenance work orders; and*
- f. Determine if industrial activities (including vocational training programs) occurring at the Facility are subject to or require coverage under the Industrial Storm Water General Permit.*

STATUS:

This Directive was completed on June 20, 2016.

ESTIMATED TIMELINE FOR COMPLETION:

This Directive is complete. No further actions are necessary.

BUDGET (if applicable):

\$54,000, Facilities Asset Management Branch Special Repair fund.

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE

Dewberry finalized this report on June 13, 2016. This report was submitted to the Central Valley Water Board on June 20, 2016 and has been accepted.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

This Directive is complete. No further actions are necessary.

WORK TO BE COMPLETED NEXT QUARTER:

This Directive is complete. No further actions are necessary.

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DIRECTIVE 10:

Beginning with the first quarter 2014, the Discharger shall submit quarterly progress reports describing the work completed to date to comply with each of the above requirements, as well as what work will be conducted in the next quarter. The Quarterly Progress Reports shall be submitted by the 30th day of the month following the end of the quarter (e.g., by 30 April, 30 July, 30 October, and 30 January).

STATUS:

Ongoing

ESTIMATED TIMELINE FOR COMPLETION:

DVI staff will update deficient reports by August 31, 2016, and will continue to submit Quarterly Progress Reports as required by the directive, until the Cleanup and Abatement Order is rescinded.

BUDGET (if applicable):

N/A

THOROUGHLY DESCRIBE SPECIFIC ACTIVITIES PERFORMED TO ACHIEVE COMPLIANCE WITH DIRECTIVE:

This Quarterly Report has been prepared in accordance with the Directive. All incomplete reports will be corrected and resubmitted by August 31, 2016.

LIST OF STEPS DISCHARGER IS TAKING TO HASTEN COMPLETION OF THE REMAINING UNCOMPLETED TASKS TO ACHIEVE COMPLIANCE:

DVI will be submitting Quarterly Progress Reports to Facilities Asset Management Branch within 10 days following the end of each quarter for quality assurance and quality control prior to submission to the Central Valley Water Board.

WORK TO BE COMPLETED NEXT QUARTER:

All incomplete reports will be revised and submitted on or before August 31, 2016.