Balfour Beatty
Infrastructure Inc.

September 20, 2018

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118

Subject: Response to Findings Regarding Balfour Beatty Infrastructure, Inc. Project Performance letter dated Aug. 29, 2018

Dear Katherine,

We are in receipt of your above-referenced letter dated August 29, 2018. We are listening and will address your concerns however, we are becoming increasingly concerned as to both the demeanor and tone of the District and its consultant staff as it pertains to cooperative progress in doing what is best for the Project and issue resolution. Many of the "factual" statements contained in your letter are exaggerated or simply incorrect. In addition, many of the issues in your August 29 letter were repeated from a previous June letter which we addressed in our letter to you of June 20, 2018 (included as "Attachment A") and personally reviewed point-by-point together in our Meeting on June 26.

We will be providing more detail and further documentation and facts regarding some of the specific issues raised in your letter separately. I am disappointed that while BBII has been willing to take full responsibility for its actions, the District has yet to acknowledge any merit, much less engage in meaningful dialogue for any of the Time Impact Analysis submitted by Balfour Beatty. As I have stated in our meetings, Balfour Beatty is a negative cash position of over $27 million dollars. This amount would bankrupt most contractors, or they would abandon the work entirely. Balfour Beatty is not in the business of financing Public Work projects or their public owners. We demand and expect the District would honor the Contract process and participate in the claim resolution process in good faith.

As to the "Timeline" in your letter, it is both incomplete and misrepresents the facts. As stated previously in our letter of June 20, 2018, Balfour Beatty has both acknowledged and accepted responsibility for the deficient quality issues. It has remediated a number of these matters and any open issues are logged, tracked and a Corrective Action Plan is developed- all part of the process set forth in the Contract. As previously stated (and reflected in the Project Schedule), the remediation efforts have had no impact on the Project schedule. As to your other arguments made in the Timeline that Balfour Beatty has been less than diligent in actively pursuing the Work, the documented facts do not support the contention.

Your letter also includes seventy pages of attachments, one of which is an "Attachment E"- Details Supporting District Decisions" dated the same day as your letter and which had not been previously provided to Balfour Beatty. We address a number of those contentions below.

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In response to Section II of your letter "Decisions", we provide the following:

A. "Defective Concrete", for the record, the Project concrete is *not* defective. As previously stated, thousands of cubic yards of concrete have been successfully poured and placed on the Project that meets or exceeds the quality and strength specified in the Contract Documents. Your staff and inspection group are referring to a set of contract deficiency notices that relate to ancillary items within the concrete where plastic rebar supports/chairs were utilized and locations where the concrete did not adequately cover the rebar. Balfour Beatty has taken sole responsibility for these issues and has never stated that the District shares any fault or responsibility for these issues.

1. "Plastic rebar chairs" – All agree that the use of plastic-tipped rebar supports did not meet this Project's Specifications. As reflected in the quality control documentation submitted to the District, we have identified three locations where this issue occurred and BBII is currently engaged in the process of executing the Engineer of Record-agreed and accepted repair plan in one of these locations. This work is currently being progressed and resolved at our cost. Please refer to the Rinconada WTP Reliability Improvement Project Plastic Chair Removal Meeting Minutes prepared by the District dated September 4, 2018 ("Attachment B") documenting this progress.

   Further, the rework has not delayed the Project or impacted the operability of the Plant or the quality of the water produced. BBII has also stated that that these same plastic-tipped chairs have been utilized in other water plants and that BBII is working with its subcontractors to provide NSF-certification that this type of support does not present a safety or health issue. In addition to "Attachment B," please refer to "Attachment C," "CDM Smith Response to RFI No. 745 NSF Testing Compliance for Plastic Bar Supports" dated May 12, 2017 and "Attachment D," letter dated August 10, 2018 from NSF International to BBII subcontractor, Alamillo Rebar and NSF test results finding "Non-detect" result for all compounds tested for the Dayton Superior-PSBB Aztec Strongback Slab/Beam Bolster ("plastic-tipped rebar support or chair). None of this has changed since the last correspondence. I personally offered to meet with you and our respective staffs to discuss this topic on September 17 or 18 for an onsite face-to-face. This meeting was unilaterally postponed by SCVWD to "sometime in October."

2. "Inadequate concrete cover over rebar chairs" –Concrete coverage issues are addressed in Item 3, below. These issues were also previously addressed in past correspondence including BBII's June 20, 2018 letter to the District ("Attachment A").

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3. "Inadequate concrete coverage over rebar-all other materials" - The Corrective Action Plans have been developed and submitted but the District has yet to provide a timely response on several issues to enable BBII to proceed with the remediation (see Attachment "E," Meeting Minutes dated September 5, 2018 "WWRF Rebar Scan Analysis" and highlighted items). As stated in BBII's June 20 letter on this issue, "The concrete coverage issue is in the process of being corrected and, as recognized by the District, BBII has performed a full investigation of the structure and determined that the coverage deficiency is isolated (BBII has shared the results of its testing with the District staff)." Please refer to "Attachment B," the most recent Meeting Minutes prepared by the District (HDR) documenting the progress on this issue and the proposed fix including the repair procedure protocol, and fabrication of a mock-up of sample repairs for District review/approval. We understand your desire for a "third party" to perform the inspection of these repairs and will support and work collaboratively with the District and its inspector but will not entertain any cost sharing for this redundant effort.

4. "Other non-specified materials or debris" - the District has not identified anything new from what it raised in its June letter and which BBII previously addressed yet suggests that there is still lumber and wood in the concrete stating, "Although BBII has removed *some* non-specified materials (lumber and debris), this decision operates prospectively to any future discoveries" (emphasis added). The fact is BBII removed <u>all</u> the "non-specified materials or debris" that was identified, not just "some" and this issue was promptly resolved months ago. It is disingenuous for the District to repeat closed issues in an attempt to create the impression that BBII has not promptly resolved issues as they have arisen or that there is an inordinate number of workmanship issues on this large complex water project.

5. "Excessive pop-outs and bug holes" - It is not uncommon that after pouring concrete and during the curing and hardening process, that the concrete surface will experience "pop-outs" and "bug holes." We disagree with the District's characterization that the number is "excessive". The Specifications recognize that such issues are common and provide for an approved repair method for "bug holes" and similar issues (Technical Provision Division 3 03300-3.11 and 03350-3.01 and 3.06). These types of surface imperfections do not affect the safety or stability of the structure and are addressed after stripping of the forms.

6. "Unlisted subcontractor and failure to implement quality control" – BBII has previously addressed this issue in its letter of June 20, 2018. As previously stated, BBII identified Pacific Structures (PSI) as a subcontractor that would perform Work on the Project. However, we were not obligated under the Subletting and Subcontracting Fair Practices

Act ("Listing Law") to list PSI because its scope amounted to less than the ½ of 1% of the Contract bid. During the course of their work, PSI requested additional scope and submitted additional CCO pricing for this scope. This properly executed subcontract change order increased PSI's scope to an amount in excess of the one-half of one-percent of the Contract price. There is no "unlisted subcontractor" issue or Listing Law violation. We are available to provide you with the documentation and relay the series of events regarding this Subcontractor. It should also be noted that PSI has served us with a demand for additional compensation due to the delays on the Project. This action is tied directly to the TIA's and overall Project delay that has been submitted to the District.

7. "Failure to remedy" - Please be advised that we (BBII) and the District meet every other week to discuss contract deficiency notices and the associated corrective action plans for such notices. A review of the Log provided as Attachment A to your August 29 letter identifies 98 such issues (half of which since the start of the year). Generally, many of these have been provided with an associated Corrective Action Plan. As to the two issues raised in your letter, the Corrective Action Plan approval and Acceptance process is subject to multiple technical questions and responses. You can note the level of complexity in the attached Minutes (Attachment B) for the meetings to address the Concrete Coverage issue. As to the State approval, BBII remains willing and available to meet with the State and or fully support the District's outreach to obtain the requested approvals.

8. "Failure to supervise and implement quality control" – as stated above, BBII continues to perform its Work to assure a fully Contract-compliant product. Although all BBII personnel are responsible for quality (like safety), BBII's field staff and quality control personnel are continuing their inspection efforts and documenting issues when they are observed and documenting this information into the Log and Corrective Action Plans for approval by the Engineer and District. The reference in your letter that the energy dissipater "failed inspection," does not constitute a "material breach" of the Contract nor do any of the other quality issues raised in your letter. The Contract provides the Contractor the right to "cure" any such defects and a process for doing so which BBII is pursuing.

B. "BBII's Failure to Diligently Prosecute the Work" – This is a baseless statement and we take strong exception to this accusation. In support of its statement, the District references selective photographs, a 30-day look ahead schedule and claims that BBII is "pacing". We have plenty of pictures that show daily and weekly progress, including work inside concrete structures not visible from the outside. Our 3-week look ahead, and monthly schedule shows continual

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progress with absolutely no slowdown or work stoppages. A review of the certified payrolls (all in the District's possession) for the craft labor hours (including Subs) further shows there has been a consistent number of craft every month (65-85) with no indication of a failure to prosecute the work. This accusation is false and misleading.

C. "BBII's Time Extensions Requests Have No merit" – Over a year ago, we met and discussed time extensions with District staff, we explored ways to mitigate Project delays and even received a **unilateral 105-day time extension in DCO #24** ("Attachment F," "Directed Change 24, Revising Milestone 2 Completion of Phases 2-6). Now, the District's position is "all 23 months are unexcused and time extensions have no merit." The District's 180-degree reversal in its position is surprising. Four weeks ago, we were told the District needed 6 months to review BBII's timely and properly submitted Time Impact Analysis documenting the delays resulting from the District-issued Changes. Then, as of last week, the District advised BBII that none of these TIA's have any merit based on various generalizations related to their content that preclude any sort of meaningful dialogue. In your letter you asked BBII, to reevaluate and resubmit the TIA's as we see fit which leaves in a position having to guess the District's issues. We remain open and willing to sit-down and review these TIAs, so we might resolve the questions. In the meantime, we will reevaluate the submitted TIAs as requested by the District. There is no doubt that the TIA's have impacted the Critical Path of the Project. We consider these to be delays caused by the District or within its control or responsibility and BBII will be seeking a compensable overhead time extension, along with several of our Subcontractors that have been impacted as well.

D. "Current Project Status" – Every month we submit the monthly CPM Update for progress on the Construction Schedule. The Monthly Update provides the District with, 1. Project Overview, 2. Construction Approach and Work Breakdown Structure, 3. Major Milestones and Key Dates, 4. Project Calendars, 5. Schedule Settings and Statistics, 6. Progress Status and Areas of Concern, and 7. Attachments consisting of, a) an Updated Schedule Layout, b) Longest Path Layout, c) 30-Day Look Ahead, d) Updated Schedule of Values, e) Cashflow Diagram, f) Predecessors and Successors Listing, g) Longest Path Fragnet and, h) Primavera XER file.

This Update is approximately 30-pages and explains everything that happened and that is happening (forward looking durations) every month on the Project. It is then reviewed by the District staff and the comments are put forth in the next month's submission. I would be happy to sit-down with you and review this information during our weekly call or at your office.

E. "Construction Must Meet State Certification Standards" – Our position on responsibilities by all parties is as follows: Balfour Beatty as the "Contractor" is obligated to furnish a product that meets the construction specifications and standards for building the work as contained in our

Contract. The "Engineer of Record" is responsible for the process guarantee of the finished and treated water from the plant facility. The "District" is responsible for the operations and maintenance, and furnishing polished water to its customers which complies with all the permits and the standards contained in the Department of Drinking Water. Please advise if we disagree on this issue and we can meet to work out our differences.

III. "Standards for Review" - We disagree with all the conclusions reached in this section, except for Item 5) - we are responsible to perform quality construction.

IV. "Action Items" – We are providing the PowerPoint to the District at "Attachment G," as requested by the District. This PowerPoint was made as part of our Project issue/settlement process meeting on June 26. NSF certification status is on-going and expected to be complete before the end of the year. Further detail regarding the NSF completed testing is addressed above.

As requested by the District, we are reexamining and reevaluating the original Contract Durations for the Milestones and the Project as a whole. When BBII bid this Project, it reasonably relied upon the Contract Durations contained in the Bid Documents in formulating its estimate. BBII was unaware that the Contract Durations were unrealistic and unachievable considering the significantly constrained access to the Site, the tight footprint and trade/craft stacking. When BBII commenced the Project, it was required to create a schedule for the work which achieved the Contract Dates for the Milestones and the Project. Even though that schedule was reviewed extensively by the District and its consultant, apparently no one recognized that the Project could not be completed within the Contract's timeframes given the significant access constraints. When BBII commenced Phase 2 work, it was beset with issues as identified in TIAs 1-3 and 5 which took over the Critical Path of the work leading to BBII's requests for time extension. These delays have impacted the Critical Path. In parallel with these delays, the lack of access significantly impacted BBII's ability to progress the work although it never was able to reach the Project critical path.

In response to both your June 6 and recent August 29 letter, BBII is reviewing and evaluating the actual progress of the work, site access issue and the TIAs submitted to address BBII's entitlement to a compensable time extension to the Contract Dates. Though that review and evaluation is not yet completed, we believe that the original Contract Durations for the Project and key Milestones were grossly inadequate and wholly not achievable given the significant access constraints. In fact, the current projected "late" completion of Phase 2 is representative of a more realistic duration and completion date for Phase 2 which should have been included in the Bid Documents and the Contract.

As you requested, BBII will submit a comprehensive delay analysis which takes into consideration the inadequate Contract Durations as well as the TIAs submitted to date. As the DRB suggested, we intend to submit this comprehensive delay analysis for your consideration.

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If we cannot negotiate a resolution amongst ourselves, we will be requesting a DRB Hearing to address BBII's submission.

For BBII to provide the District with the clearest understanding of the fundamental flaws in the Contract Durations, we request that the following documents be made available promptly:

1. All documents created or used during design and the Bid Phase which were used to create, evaluate, or address the Contract and specific Phase Durations;

2. All internal communications concerning the District and its consultant reviews, evaluations and comments concerning the Baseline Schedule; and

3. All aerial photographs of the Project.

BBII requests these documents from both the District and its consultant(s) HDR and CDM Smith.

We regret that we find ourselves in this position, but given the fundamental flaw in the Contract Duration due to issues and constraints associated with site access, we are starting to believe that nothing could have been done to achieve the completion milestone for Phase 2 irrespective of other impacts or issues that may have arisen.

In the meantime, I am happy to meet with you discuss further any concerns you may have concerning progress or quality concerns.

Thank you.

Crandall Bates

V.P. Western, Region Manager

ATTACHMENT "A"

Balfour Beatty
Infrastructure Inc.

June 20, 2018

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118

Attn: Katherine Oven, Deputy Operating Officer

Reference: Rinconada Water Treatment Plant Reliability Improvement Project, SCVWD letter, "Request for Meeting to Discuss Project Status"

Dear Katherine:

We are in receipt of your letter dated June 6, 2018 regarding the above referenced subject. Based on the mischaracterization of facts and other statements made in your letter, we are disappointed to learn that you have not been kept better informed of the issues and status of the Project by your staff. This letter is intended to both address your concerns and to attempt to correct some of the inaccuracies and misperceptions. As noted in your letter and our subsequent phone call, we have agreed to discuss these issues face to face with our respective staff in further detail at our upcoming June 26th meeting at the Rinconada plant site.

Although a full documented response to each of the items raised in your letter is beyond the scope of this correspondence, we will address the items in the same order as presented in your letter:

I. CURRENT PROJECT STATUS

The District contends that the Project is more than a year late, because of "defective structural concrete". This assertion is false and misleading. In Section 11 of the Contract specifications, there is a requirement for a CPM Project schedule. This schedule is approved by the Owner and updated on a monthly basis. The current and updated schedule does not support the District's assertion. In fact the Project has been delayed for several Owner directed changes, which have impacted the critical path on the Project.

For example, the Project's Dispute Review Board in its very first hearing ("Dispute No. 1: Time Impact Analysis 01" or "TIA 1") found that "The District is responsible for the delay associated with the access to Area 8 in Phase 2 (Delay 1)." The impact of this very early District-caused delay precluded Balfour from even starting Work in this area and resulted in a chain of impacts that will be subsequently addressed by the Project Dispute Review Board (DRB) in the future.

Although you were not present at the Hearing and may not have reviewed Balfour's Claim and substantiating documentation, the dispute provides insight into the nature of the District-caused Project issues that BBII has faced.

As you note in your letter, the Contract's original Phase 2 completion milestone was December 2016. The critical path on Phase 2 of this Project was delayed by the District denial to BBII of access the site of the wash water recovery basin (TIA 1), electrical gear changes (TIA 2, 3, 5) and chemical system changes (TIA 4). These impacts to the schedule have been memorialized in written correspondence, notices of potential change, monthly schedule updates and the contractually required time impact analysis (TIA's). These changes were initiated by your staff and fall under the category of District changes that caused delays to the Project critical path, and thereby resulted in compensable delays to Project completion.

These District-caused delays to the Project are a result of a number of observed factors including the poor scheduling and coordination by the District of two of its Contractors attempting to work at the same time on the same site. In addition, District-ordered changes to the original electrical and chemical system design (upon which BBII based its bid), altered the as-bid Project Plans and Specifications. A reflection of the poor coordination and changes in Project design are the inordinate amount of RFI's, CDC's, PCO's, CO's and DCO's generated on the Project. These numerous issues have had a negative impact on the critical path of the Project schedule and significantly delayed the Project.

Your letter also did not acknowledge the TIAs that have been submitted to the District that document and quantify these delays. The District staff continues to refuse to acknowledge these delays (other than a 105-day unilateral and non-compensable time extension).

As you may know, BBII requested a hearing before the DRB in the hopes that they might be able to assist the Parties in addressing the Phase 2 delays. However the District refused to allow the DRB to review the known Phase 2 delays and would only participate in the DRB if the DRB would limit itself to reviewing each TIA individually in a piecemeal fashion without regard to the fact that each TIA was linked to the next. BBII acquiesced and submitted a joint dispute statement limited to a compensable time extension for Delay 1. Although the DRB found that BBII was delayed by the District in providing access to the Project Site as required by the Contract, the DRB recommended that in order to fully resolve the issue, all delay events must be identified and evaluated in chronological order using the proper schedule (as initially requested by BBII).

To date the District has been unwilling to address the impact of the TIA's and resolve the Phase 2 delays. We still believe a formal hearing regarding the entire Phase 2 delay is appropriate, and we will be requesting a hearing of this issue to the DRB in the near future.

BBII has submitted TIA 1 and 2 to the District for its review and action. Further we have shown the impacts to Phase 2 completion by the issues set forth in TIA 3, 4 and 5 in the Project

Schedule update, as this was a specific request by your staff. The most recent CPM update shows these delays have impacted the completion of Phase 2 by over 24-months. This can be verified and validated by the fact that there have been over 100 changes to the Project electrical design to date. These District electrical design changes have in turn prevented startup and commissioning of Phase 2.

As briefly outlined above, the District's action/inaction has been a major contributor to the delays raised in your letter. Your erroneous claim that "defective" structural concrete is a key reason for the delay to Phase 2 is misleading and wrong. The Project structural concrete is not "defective" as we have placed over 17,000 cy of concrete to date, with over 450 samples taken. All samples have passed the requisite testing and no concrete has been rejected. We believe your reference to "defective structural concrete" appears to be a NSF certification issue involving embedded rebar supports that are plastic rather than stainless steel and is more fully discussed below.

II. DISTRICT'S REQUEST TO MEET AND DISCUSS BBII'S PERFROMANCE AND PROJECT DELAYS

As previously stated, we welcome the opportunity to personally meet with you and discuss these matters next week, June 26th from 2 to 4 pm at the Rinconada Plant Conference Room. We remain hopeful we can work together with the District to overcome these matters and successfully complete this Project

III. SUBCONTRACTORS, MATERIALS, SUBMITTALS, AND QUALITY STANDARDS

A. Rebar Supports – We agree that the rebar supports, or "chairs" as referred to in your letter (although industry standard on other plants in California), did not meet this particular project's Specifications. As an aside, BBII's inadvertent use of these supports was an oversight by both BBII and the District as your Special Inspector observed the use and installation of these supports and did not raise any issues or non-conformance regarding this discrepancy. Nonetheless BBII's use of these supports was not in compliance with Specifications. This issue is currently being resolved at our cost, and the resulting rework has not delayed the Project or impacted the operability of the Plant or the quality of the water produced.

   Although it was not clear by the District's letter, the only other rework/quality issue that the District may be referring to as "structural concrete", concerns the rebar supports that were utilized in the Ozone Contact Structure. The work to correct this issue is substantially complete and has not affected other work or the Project schedule.

Both of the above issues have been discussed multiple times at the Site, and are well documented in the Project records through meetings, correspondence, RFI's, memoranda, and deficiency corrective action plans submitted to and approved by the District.

B. Pacific Structures (PSI) – BBII was not required to list Pacific Structures for the scope of work subcontracted as it was less than one-half of one- percent of the Contract price. There is no issue with subcontractor listing and BBII intended to self-perform this Work at bid time (and has in fact self-performed a substantial amount of this work). PSI's scope was increased through executed Subcontract Change Orders at PSI's request and later decreased.

The District's claim that PSI performed work without approved submittals or somehow wrongly tampered with submittals is false. This claim is baseless and the Project records reflect otherwise. If the District believes that PSI's work was defective or otherwise did not meet Contract Specifications, we would like to discuss the matter with you further and provide PSI an opportunity to respond to your allegation.

C. Failure to Adequately Schedule the Work – BBII's Baseline and monthly Schedule Updates have met the Project Specifications and exceed industry standards. In addition, BBII has daily, weekly and 90-day "look ahead" schedule meetings. We continue to use the approved Baseline Schedule and progress the updates on a monthly basis. Again the District has failed to acknowledge the impacts on the Project schedule that their design and other changes have created, and appear to now somehow blame the District-approved construction Schedule for the impacts of the District's actions.

IV. BBII-CAUSED MATERIAL, UNEXCUSED CONSTRUCTION DELAYS AND FAILURE TO PROMPTLY CORRECT DEFECTIVE WORK

A. Rebar Supports – Previously addressed above. BBII is available to provide further information if desired/needed.

B. Watertight Access Doors – BBII has acknowledged and recognized that one of its subcontractors inadvertently installed door frames on the reverse side of the wall from that shown in the plans. You state in your letter that this issue remains uncorrected. This is not true and within three-weeks of receipt of the corrective submittal, BBII completed the rework to correct the matter for the four frames last year. This corrective work had no effect on the Project critical path or completion.

C. WWRF Watertightness Testing – BBII conducted watertightness testing of the WWRF in July 2017. It is not unexpected that the initial watertight testing of a concrete structure of this size, will experience some water loss which is why there is not only an allowable tolerance for acceptable water loss, but there are also approved-remedial measures to address the issue. BBII performed the leak test, identified and isolated the

few leak locations in the exterior walls and immediately corrected the work in those locations in preparation for backfilling the outside of the structure. In August 2017, approximately 4-weeks after this initial corrective work, the wall of the tank was dry and showed no sign of leakage and was ready for backfill.

It should be noted that we believe the District imposed an unreasonable restriction against backfilling the west wall until after the drop test. The District's insistence that the shotcrete shoring system be removed prior to backfill was also an unsupported interference with our planned means and methods for this Work and resulted in a further delay of the backfill work. The District's direction to not allow BBII to backfill the dry wall (where there was no indication of further water loss) until another apparent leak at the bottom of the structure was repaired was arbitrary and unnecessary, but we complied.

The District notes that this leak at the bottom of the structure was over a thousand gallons per day, "a substantial volume of water". Not to minimize this issue, but it should be noted that the Project Specifications allow up to 800 gallons of water loss from this structure with no additional repair required. Nevertheless, BBII did repair the leak in the bottom of the structure from inside of the structure, not the outside (further highlighting that the District's direction for BBII to delay its backfill of the structure wall was wrong). This is entirely an Owner interference caused delay that has been raised with the District and still remains unaddressed.

D. Concrete Workmanship – The District's letter also raises two workmanship issues relating to concrete- insufficient concrete coverage over rebar and debris left in the concrete. BBII acknowledges that it discovered and removed a short (approximately 2" x 4" x 14") piece of lumber from the slab of the WWRF structure, and promptly repaired the void. BBII is not aware of any other "debris" issues.

The concrete coverage issue is in the process of being corrected and, as recognized by the District, BBII has performed a full investigation of the structure and determined that the coverage deficiency is isolated (BBII has shared the results of its testing with the District staff). BBII recognizes that both workmanship issues are unacceptable and has taken immediate steps to correct them. Neither of these issues had an effect on the Phase 2 milestone completion.

E. Staff Performing Corrective Work – As mentioned above, the corrective work performed to date has been limited, performed as fill-in work and has not impacted the Project's critical path. Moreover some minor corrective and clean-up work of this nature during the course of construction, somewhat akin to punchlist work, is not unanticipated and has no effect on completion.

F. Area 16 Delays –TIA 3 sets forth the District-caused delays to Area 16 and their impacts on the construction schedule. The delay to Area 16 is entirely the result of the District's continued and prolonged design changes to the electrical enclosure.

V. Failure to prosecute work since July 2017

The District accuses BBII of having made "very limited progress" since July 2017, "work that has sat idle", and "it appears that BBII does not have adequate resources…" The District's accusations are incorrect and fail to reflect the facts. As shown by both BBII's schedules and Progress Payment Applications (which are reviewed and approved by the District), the structural concrete components of Phase 2 have been substantially complete since July 2017. The majority of the Work completed in these structures since July 2017 has been mechanical, process piping, equipment setting, electrical, and architectural work which are not captured by the general Project construction progress photos of the exterior of structures that the District included with its letter. BBII is happy to share with the District the many photos of the progress of the on-going work inside these structures, which are corroborated by Project Documentation including the Monthly Project Schedule Updates and the monthly certified payroll reports.

VI. DISTRICT CAUSED DELAYS

The District has confused TIA 2, 3 and 5, and the work and delays associated with Areas 8, 13 and 16. TIA 2 is for the delay to the electrical equipment pad at Area 13. TIA 3 is for the delay to the electrical equipment enclosure at Area 16. TIA 5 is for the delay to the electrical equipment pad west of Area 8.

The District has knowledge of all these TIA's and all known impacts to date have been shown in the monthly updated schedules as requested by the District staff. These TIA's need to be resolved and included in the schedule for any meaningful completion dates to be forecast. BBII has repeatedly requested that the District include consideration of these TIAs and associated documented delay events into the Schedule from the beginning of the Project starting with TIA 1, but has met with continued resistance. We also have suggested the possibility of deleting work in Phase 5, to mitigate some of the Project delay. We are still open to discuss these options.

VII. Current Phase 2 Conditions

The current critical path of the Project runs through the electrical and instrumentation delays as presented in TIA 3 and 5. Phase 2 cannot begin startup and commissioning without the electrical work progressed as shown in the current Schedule update. All other activities on the Project have available float created by the delayed electrical work meaning that issues such as the piping and rework raised in your letter, will not impact the Project's critical path and completion. We are available to walk you through your concerns and why these matters have not impacted the Schedule.

VIII. Summary of District's Assessment

We disagree with the District's characterization in its letter that BBII is responsible for all of the delays and issues arising from the Project.

Balfour Beatty is a Contractor with over 25 years of experience in water on the West Coast, and over 100 years worldwide. We have performed similar and identical work on over 25 plants, with a value of over $2 billion. We have the resume, expertise and skillset to supervise and manage these complex projects. We have seen these types of issues before, and know that some Owners/Agencies desire changes from their original design for a variety of reasons and are entitled to get exactly the end product that they want. I assure you that we are committed to working with the District and helping it achieve what it desires. All we ask in return is fair consideration and reasonable compensation/time extensions to accommodate these Owner directed changes.

I look forward to discussing your concerns further next week as well as how we might have a meaningful discussion to resolve BBII's significant time and compensation requests.

Sincerely,

Crandall Bates
V.P. Western Region

ATTACHMENT "B"

Rinconada
SAFETY · RELIABILITY · QUALITY
2015 – 2021

HDR

RINCONADA WTP RELIABILITY IMPROVEMENT PROJECT

PLASTIC CHAIR REMOVAL MEETING MINUTES

ref: NCN 022

FOR THE MEETINGS THAT OCCURRED FROM

July 24, to September 4, 2018
Time: 10:00 AM – 11:00 AM
Location: Large Conference Room
400 More Avenue Los Gatos, CA 95032

Attendees

1. Reporting: Bays

09/04/18 – Erin (BBII) stated the only thing holding up IR # 4 is basin 2 water tightness testing; will walk with Bob (HDR) to verify no dampness.

08/28/18 – Erin (BBII) stated Inspection Request (IR) # 4 will not be ready until hydro test work is complete. Roger (HDR) reminded BBII that it still needs to be submitted, Erin (BBII) stated that it's currently pending Bob's (HDR) inspection. Bob (HDR) stated that drop test is ongoing, inspection will be early next week, once basins are drained.

08/21/18 –

1. Erin (BBII) reported: Dewatered contactor to access 4th door on West side to isolate and repair crack. Intend to finish crack repair, cure, and then perform dampness test. On the East side, drained the northernmost cell, internally transferring water from cell where retrofit door is leaking, dewater West side, and resume chair removal. IR 4 is pending draining and inspection.
2. Erin responded to NCN #94 Area 2 Ozone Contactor Exposed Rusting Tie Wires, disagreeing with NCN and providing remediation plan as submittal 03922-8.0.

08/14/18 –Bob (HDR) has signed Inspection Requests 1, 2, 3, 5, and 6. Zul said an IR#4 is ready for Bob.

08/07/18 – Erin (BBII) stated that the Eastern side of Ozone (C to D between 4 and 8, Basin 2) is complete, BBII plans to submit Inspection Request #2 today and Inspection Request #5 today or tomorrow. West half of Basin #1 is currently being filled in order to perform dampness tests on structure's exterior and water-tightness testing of doors. Once done, BBII will drain, reenter, and begin work on Gridlines 5 to 9, 2nd round of Chair Removal A to B.

07/31/18 – BBII finished with East side wall Gridline 6-7, currently working on West side wall that were previously unreachable (4 to 5, A&B). This may be completed by the end of this week or early next week. In responding to Patrick and Mike (SCVWD), Yuriy conferred with Erin and at this time completion of all plastic chair work should be by the end of September 2018.

07/24/18 – Meeting Cancelled

2. Grinding

08/21/18-09/04/18 – No updates.

08/14/18 – Patrick (SCVWD) requested confirmation that grinding was stopped, Bob (HDR) confirmed; adding that more is anticipated after dewatering. Prior to the basins being filled, grinding was in compliance with NCN #22.

08/07/18 - Bob (HDR) inquired if tie wire rust spots appear does BBII understand to take no action until a CAP is submitted and approved? Erin (BBII) confirmed that BBII staff will be directed to halt all remedial work. Roger (HDR) advised BBII to not perform any destructive work unless they scan to verify rebar at and surrounding exposed tie wire has 1.5" of concrete cover witnessed by a CM Inspector. Erin (BBII) assured the scanner will detect both tie wire and rebar, but scanner must be monitored to discern the difference.

Roger (HDR) offered for an inspector to witness the scanning work with 24 hour prior notification, stating that the patching tie-wire repair was acceptable. Erin (BBII) agreed to map the tie-wire locations but Bernie (HDR) inquired if a map was needed for tie wire, emphasizing the need for shallow rebar mapping was more critical.

07/31/18 – No update.

07/24/18 – **Meeting Cancelled**

3. Documentation

08/21/18-09/04/18 – No updates.

08/14/18 – Patrick (SCVWD) requested status of mapping and documentation of chair locations. Roger (HDR) stated it is submitted with each inspection request (IR); Bob (HDR) confirmed mapping in the IR have been accurate. Zul said IR#4 is ready for Bob.

08/07/18 - Bob (HDR) confirmed that he signed off on Inspection Requests 1, 3, and 6 but not the final content. Zul (BBII) submitted the CAP for #1 and #6 this morning, Erin (BBII) confirmed that #2 and #5's CAP will be sent tomorrow.

07/31/18 – Roger inquired what documents BBII had submitted to-date. Zul (BBII) stated that inspection report (IR) 2 of 13 have been submitted as of 7/31/18. BBII plans to submit 3-4 by early next week. Zul also said two CAPs have been submitted.

07/24/18 – **Meeting Cancelled**

4. Rebar Chair Levels

08/14/18-09/04/18 – No update.

08/07/18 – Erin (BBII) stated current priority is hydro testing for dampness.

07/31/18 – Erin said BBII is still chasing down more plastic chairs higher up the walls.

07/24/18 – **Meeting Cancelled**

5. Xypex

09/04/18 – Erin (BBII) stated once basin 2 is drained, will be good chance to look at Xypex coating

08/28/18-08/07/18 – No updates.

7/31/18 – Erin (BBII) stated Xypex approval is at the discretion of the inspector upon passing the watertightness testing (WTT). Bob (HDR) stated that he didn't observe any flaking at this time but ultimately the Xypex coating acceptance is at the District's discretion. Bob reiterated that he would address concerns upon observation of flaking or failing Xypex coating. Yuriy (BBII) proposed to deem status "to be reevaluated pending hydrotest completion".

07/24/18 – **Meeting Cancelled**

6. Submarine Doors

09/04/18 – Bob (HDR) stated GL 6-7, A-C, C-D are the only ones with issues. Erin (BBII) stated contractual requirements are COPI, leak test, inspections. Recommended signing off on stock doors (non-retrofit). Jeff (CDMS): specs say no leakage. Bernie (HDR): no leakage means no dampness. Erin: up for interpretation. Bob stated he has a clear understanding of what the Engineer is looking for to pass the dampness test; will treat doors the same as walls.

08/28/18 – Erin (BBII) requested an engineer on-site to confirm what is required to accept the doors. Bob (HDR) countered the main requirements per the specifications - there must be no damp spots or leaks from the doors, its frame or the surrounding area.

08/21/18 – No updates.

08/14/18 – Erin (BBII) stated the plan is for West Side to pass dampness inspection, then dewater. East Side is ongoing but retrofit doors need to be retested and repaired. Roger (HDR) asked how many doors are leaking, Erin (BBII) stated just one leaking excessively in eastern side, requiring de-watering to repair. There is a weak seal between the frame and concrete, BBII intends to soak and allow leaks to manifest. Once washdown samples are returned, area to be dewatered and repairs completed. Bob (HDR) stated currently only one of the doors would pass the damp test. Zul (BBII) suggested starting the conversation on NCN #20. Erin (BBII) stated that he is not ready to start discussing NCN #20.

08/07/18 – Erin (BBII) stated that the five doors on West side are being retested during the dampness testing. Three East side doors have water behind them, 2 East side doors need additional work to be addressed by end of week.

07/31/18 – Erin (BBII) encouraged resolution of Item #6; stating that the 5 doors on the West side have been filled with water, 4 of 5 East side doors still pending. Erin mentioned that 1 East side door tested was leaking, making a total of 6 doors with leaks.

a. Yuriy: Is there an Operations Readiness Test (ORT) in the spec?
b. Erin: There is a manufacturer's requirement to provide an on-site observation. My intent was to get them all leak-proof; once that's done we can confirm. Keep in mind there are two different door varieties (doors specified per Contract and retrofit doors).
c. Bob: I view them as a work in progress, we've reached that point on 2 of the 10 doors.
d. Yuriy: It's a work in progress with the inspection to be finalized. The inspection will include the representative's signature of approval.
e. Greg (CDM Smith): There are three ways the doors can leak: from the window, between the door and frame, or between the frame and concrete. Where are you seeing the leaks?
f. Erin: Through the handles, they need to add two additional O-Rings. There has been some leakage between the frame and the door.
g. Greg: The manufacturer should come out as they know the technique to get doors to seal.

07/24/18 – Meeting Cancelled

7. Rust Spots on Ozone

09/04/18 – On hold until basins are drained.

08/28/18 – Roger (HDR) stated that NCNs were issued for 8/14/18 issues discussed; BBII responded with a submittal disagreeing with the NCN for tie wire. Roger (HDR) reminded BBII that the rust spots are the main issue and that HDR will respond. Erin (BBII) stated that BBII followed suggestions and tried chipping in the Ozone but it didn't produce a satisfactory result. Erin (BBII) referred to the spec stating that feathered edges are not permitted and said that a chipping hammer demo will require repairs with feathered edges. Erin (BBII) expressed further concern that a patch will fall out in a few years leading to more issues. Greg (CDM Smith) stated that drilling isn't productive for wires not perpendicular to the wall but is receptive to new proposals. Erin (BBII) to submit an RFI and mentioned

the risk for staining from shallow tie wire parallel to the base. Yuriy (BBII) requested input from the group, Patrick (SCVWD) reminded BBII that is the Contractor's responsibility to resolve. Roger (HDR) stated that HDR will respond to BBII what is the right mechanism for the issue after BBII responds with a CAP. Erin will issue a RFI to confirm BBII on the right track with proposal.
08/21/18 – No updates
08/14/18- Follow up to occur after basins emptied and time has passed for rebar/ties to oxidize. Roger (HDR) stated a separate NCN to be issued for rust spots.
8/07/18 - Jeff (CDM Smith) recommended mapping for current and future reference, Bernie (HDR) advised to document the rust surrounding rebar.
07/31/18 – Roger (HDR) stated when rust spots were found on the Ozone, staff opened it and only found tie wire rusting. Bob (HDR) observed the locations of the two pieces of reinforcing I noted in the cell A to B between 4 and 5 are: On the interior 4 line wall, the first is located approx. 1 foot off of A line and 2 1/2 foot off of the slab on grade. The second piece of reinforcing is located on the interior of 4 line wall 18" off of A line and approx. 6 feet up from the slab on grade.

8. NSF 61 and the Plastic Chairs
09/04/18 – BIC BBII to respond to Engineer's comments.
08/28/18 – Roger (HDR) stated that the NSF 61 letter is uploaded in EADOC. BBII's task is to address the concerns listed. Yuriy asked if a meeting with NSF 61 would be beneficial. Greg said no. Yuriy (BBII) stated that the response is currently with NSF and Alamillo. Patrick explained that two conditions may allow a waiver to use of non-NSF 61 products:

1. If no other product is available
2. Request for a waiver is submitted prior to doing the work.

Patrick explained that besides the NSF 61 issue with plastic chairs, there are concern with the chemical resistance and the longevity of these plastic chairs.
08/21/18 – No updates.
08/14/18 – Erin (BBII) confirmed receipt of NSF 61 letter, stated letter was uploaded on EADOC this morning for NCN # 85 and # 86. Erin recommended staff review the letter and to schedule a conference call with NSF regarding any questions. Roger (HDR) stated that NSF 61 letter, NCN # 85, and # 86 to be forwarded to CDM Smith for review.
08/07/18 – Erin (BBII) stated revised NSF 61 letter is expected today or tomorrow. BBII will transmit to HDR and schedule conference call.
07/31/18 – Yuriy will submit, with an explanation, the letter from NSF that states NSF is not certifying the plastic chairs NSF 61 safe but have determined non-detect for any harmful chemicals in the plastic chairs. Mike (SCVWD) said this may be helpful with water quality requirements.

Notice: These notes will be relied upon as the approved record of matters discussed and conclusions reached during the meeting. Unless you send the author a written notice to the contrary within seven (7) days following the date of receipt of these notes, record becomes part of the project documentation.

ATTACHMENT "C"

Rinconada WTP Reliability Improvement Project
SCVWD Project No. 93294057

CDM Smith

RFI RESPONSE FORM

Response to RFI No. 745 NSF Testing Compliance for Plastic Bar Supports

Reference Drawings:

Reference Specifications: 03200

Responder: Greg Lindstadt (CDM Smith)

Response Date: 5/12/17

Question:

Is it acceptable to provide product specific NSF testing for the material utilized for the Dayton Plastic bar supports utilized in the structures placed to date. Also please see the attached information from NSF identifying the type of testing that they can provide and the extent of the report that they can provide.

The approach onsite would be to remove samples from each water bearing structure for the basis of testing. This would be coordinated with and witnessed by the IOR. Note that this would apply to the waterside only.

The following items would also be provided to the NSF representative:

1. Trade Name for the "Bar Support Product" and any product literature/pictures available.
2. Technical Data Sheet of the raw material from which the product is made.
3. The Estimated surface area of this product in a given volume of water.

Response:

Product-specific testing and certification by NSF is acceptable.

It is not necessary to physically remove a sample already cast into the structure, presuming that the contractor can provide on-hand samples of the same product used (to be verified by the IOR).

ATTACHMENT "D"

NSF International

August 10, 2018

Mr. Brett Alamillo
Alamillo Rebar, Inc.
325 West Channel Road
Benicia, CA 94510

Re: Test Only Evaluation
Rinconada WTP Reliability Improvement Project
- Flocculation and Sedimentation Basins
- Washwater Recovery Basins

Sample Provided	NSF Sample ID
Dayton Superior – PSBB Aztec Strongback Slab / Beam Bolster	J-00299582

Rebar chairs (plastic)

Dear Mr. Alamillo,

This is to inform you that we have completed testing on the samples of Dayton Superior – PSBB Aztec Strongback Slab / Beam Bolster that Alamillo Rebar submitted to NSF. The results found the sample in compliance with the extraction requirements of NSF/ANSI 61 for Polycarbonate (PC) and Acrylonitrile-butadiene-styrene (ABS) materials when normalized for use in the Rinconada WTP Reliability Improvement Project basins identified above as detailed in your correspondence where the wetted surface area to volume ratio calculated to less than 0.1 in2 the rebar support per liter of processed water.

Please note that this evaluation does not constitute an NSF Standard 61 Listing of the Dayton Superior – PSBB Aztec Strongback Slab / Beam Bolster since NSF has not obtained the information normally required from the product manufacturer nor has NSF audited the manufacturing location. Under this 'test only' service, NSF will not be perform annual audits or periodic re-testing as is done on Listed products.

Please feel free to contact me directly if you have any questions.

Sincerely,

Peter F. Greiner
Technical Manager
Drinking Water Additives
greinerp@nsf.org
(734) 769-5517

cc: C Scruggs, W0494417, C0350643, PM18717

NSF International
789 N. Dixboro Rd. Ann Arbor, MI 48105, USA
1-800.NSF.MARK | +1-734.769.8010 | www.nsf.org

TEST REPORT

Send To: C0350643
Mr. Brett Alamillo
Alamillo Rebar Inc.
325 West Channel Road
Benicia, CA 94510

Facility: C0350644
Alamillo Rebar Inc.
325 West Channel Road
Benicia CA 94510
United States

Result	**COMPLETE**	Report Date	10-AUG-2018
Customer Name	Alamillo Rebar Inc.		
Tested To	NSF/ANSI 61		
Description	Dayton Superior – PSBB Aztec Strongback Slab /Beam Bolster ¦ Rebar Support		
Trade Designation	Dayton Superior – PSBB Aztec Strongback Slab /Beam Bolster		
Test Type	Test Only		
Job Number	J-00299582		
Project Number	W0494417		
Project Manager	Cortney Scruggs		

Thank you for having your product tested by NSF International.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization Amanda Phelka - Director, Toxicology Services **Date** 10-AUG-2018

General Information

Standard: NSF/ANSI 61

Physical Description of Sample: Rebar Support

Tested DCC Number: PM18717

Trade Designation/Model Number: Dayton Superior – PSBB Aztec Strongback Slab /Beam Bolster

Detected Compounds

NSF International has completed the testing and toxicological evaluation of the product identified above. These extractants from the test sample, when normalized as requested, are summarized in the table below with their corresponding action levels.

As requested, the enclosed results are for internal use only, and do not constitute certification by NSF International. The actual or implied use of NSF International's name and/or mark in connection with this project is prohibited except with the specific written authorization of NSF International.

Contaminant	Result	Criteria
All compounds requested	Non-detect	

NSF INTERNATIONAL LABORATORIES

Sample Id: **S-0001494562**
Description: Sample exposed at 23C and pH 8
Sampled Date: 06/05/2018
Received Date: 05/25/2018

Normalization Information:

Date exposure completed:	05-JUN-2018	Calculated N1:	0.090	Field Exposure Time:	24 hours	Lab Exposure Time	24 hours
Field Surface Area:	0.1 in2	Lab Surface Area:	1.1 in2	Constant N2:	1	Misc. Factor:	1
Field Static Volume:	1 L	Lab Static Volume:	0.990 L				
				Calculated NFm:	1.00		

Compound Reference Key: SPAC

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab					
* Acrylonitrile, Acetates and Acrylates by VOC GCMS					
Acrylonitrile	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	ug/L
Ethyl acetate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Methyl acrylate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Ethyl acrylate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
tert-Butyl Acetate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Methyl methacrylate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Isobutyl acetate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
n-Butyl acetate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Butyl acrylate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Butyl methacrylate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Methyl Acetate	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Metals I in water by ICPMS (Ref: EPA 200.8)					
Aluminum	ND(10)	ND(10)	ND(10)	ND(0.90)	ug/L
Arsenic	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Barium	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Beryllium	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Bismuth	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Cadmium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	ug/L
Chromium	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Copper	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	ug/L
Nickel	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Lead	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Antimony	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Selenium	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Tin	ND(0.5)	2.0	ND(0.5)	ND(0.04)	ug/L
Strontium	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Thallium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	ug/L
Zinc	ND(10)	ND(10)	ND(10)	ND(0.90)	ug/L
Silver	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L
Volatile Organic Compounds (Ref: EPA 524.2) Eaton Analytical					
Date Analyzed	12-JUN-2018				
Dichlorodifluoromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L

NSF INTERNATIONAL LABORATORIES

Sample Id: S-0001494562

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Chloromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Vinyl Chloride	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	ug/L
Bromomethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Chloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Trichlorofluoromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Trichlorotrifluoroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Methylene Chloride	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,1-Dichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
trans-1,2-Dichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,1-Dichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
2,2-Dichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
cis-1,2-Dichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Chloroform	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Bromochloromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,1,1-Trichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,1-Dichloropropene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Carbon Tetrachloride	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2-Dichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Trichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2-Dichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Bromodichloromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Dibromomethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
cis-1,3-Dichloropropene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
trans-1,3-Dichloropropene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,1,2-Trichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,3-Dichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Tetrachloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Chlorodibromomethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Chlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,1,1,2-Tetrachloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Bromoform	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,1,2,2-Tetrachloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2,3-Trichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,3-Dichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,4-Dichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2-Dichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Carbon Disulfide	ND(5)	ND(5)	ND(5)	ND(0.4)	ug/L
Methyl-tert-Butyl Ether (MTBE)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
tert-Butyl ethyl ether	ND(3)	ND(3)	ND(3)	ND(0.3)	ug/L
Methyl Ethyl Ketone	ND(5)	ND(5)	ND(5)	ND(0.4)	ug/L
Methyl Isobutyl Ketone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Toluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Ethyl Benzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
m+p-Xylenes	ND(1)	ND(1)	ND(1)	ND(0.09)	ug/L

Sample Id: S-0001494562

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
o-Xylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Styrene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Isopropylbenzene (Cumene)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
n-Propylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Bromobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
2-Chlorotoluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
4-Chlorotoluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,3,5-Trimethylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
tert-Butylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2,4-Trimethylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
sec-Butylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
p-Isopropyltoluene (Cymene)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2,3-Trimethylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
n-Butylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2,4-Trichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Hexachlorobutadiene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
1,2,3-Trichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Naphthalene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Benzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Total Trihalomethanes	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
Total Xylenes	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.04)	ug/L
* 1,3-Butadiene (Modified EPA 524.2)					
Date Analyzed	12-JUN-2018				
1,3-Butadiene	ND(5)	ND(5)	ND(5)	ND(0.4)	ug/L
BASE/NEUTRAL/ACID EPA METHOD 625 Scan for Tentatively Identified Compoun					
No Compounds Detected	ND(4)	Complete	ND(4)	ND(0.4)	ug/L
Scan Control Complete	TRUE				
Semivolatile Compounds, Base/Neutral/Acid Target 625, Data Workup					
Pyridine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Nitrosodimethylamine (N-)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Nitrosomethylethylamine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
5-Methyl-2-hexanone (MIAK)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1-Methoxy-2-propanol acetate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Heptanone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Cyclohexanone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Nitrosodiethylamine (N-)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Isobutylisobutyrate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Aniline	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Phenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Di(chloroethyl) ether	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Chlorophenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,3-Benzofuran	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1,3-Dichlorobenzene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1,4-Dichlorobenzene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L

Sample Id: S-0001494562

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
3-Cyclohexene-1-carbonitrile	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Ethylhexanol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzyl alcohol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1,2-Dichlorobenzene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
bis(2-Chloroisopropyl)ether	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Methylphenol (o-Cresol)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Methylaniline	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Acetophenone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Nitrosodi-n-propylamine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Nitrosopyrrolidine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
3- and 4-Methylphenol (m&p-Cresol)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Hexachloroethane	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Phenyl-2-propanol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Nitrosomorpholine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Nitrobenzene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,6-Dimethylphenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Vinylpyrrolidinone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Nitrosopiperidine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Triethylphosphate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Isophorone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Nitrophenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,4-Dimethylphenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
bis(2-Chloroethoxy)methane	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,4-Dichlorophenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Trichlorobenzene (1,2,4-)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Naphthalene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
4-Chloroaniline	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1,1,3,3,-Tetramethyl-2-thiourea	ND(4)	ND(4)	ND(4)	ND(0.4)	ug/L
Hexachlorobutadiene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzothiazole	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
N-Nitrosodi-n-butylamine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
4-Chloro-3-methylphenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
p-tert-Butylphenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Ethylhexyl glycidyl ether	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,6-Di-t-butyl-4-methylphenol(BHT)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Methylnaphthalene, 2-	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Cyclododecane	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,4,5-Trichlorophenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,4,6-trichlorophenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1(3H)-Isobenzofuranone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Chloronaphthalene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2-Nitroaniline	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1,1'-(1,3-Phenylene)bis ethanone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,6-Di-tert-butylphenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L

NSF INTERNATIONAL LABORATORIES

Sample Id: S-0001494562

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Dimethylphthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
1,1'-(1,4-Phenylene)bis ethanone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Acenaphthylene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzenedimethanol, a,a,a',a'-tetramethyl-1,3-	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,6-Dinitrotoluene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,4-Dinitrotoluene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzenedimethanol, a,a,a',a'-Tetramethyl-1,4-	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
2,4-Di-tert-butylphenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Dimethyl terephthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Acenaphthene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Dibenzofuran	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Ethyl-4-ethoxybenzoate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
4-Nitrophenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Cyclododecanone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Diethyl Phthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
p-tert-Octylphenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Fluorene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
4-Chlorophenylphenylether	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
3-Nitroaniline	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
4-Nitroaniline	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Nitrosodiphenylamine (N-)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Azobenzene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
4-Bromophenylphenylether	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Hexachlorobenzene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Pentachlorophenol	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Phenanthrene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Anthracene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Diisobutyl phthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Dibutyl phthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Diphenyl sulfone	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Hydroxymethylphenylbenzotriazole	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Fluoranthene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Pyrene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Butyl benzyl phthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Di(2-ethylhexyl)adipate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
3,3-Dichlorobenzidine	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzo(a)anthracene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Di(2-ethylhexyl)phthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Chrysene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Di-n-octylphthalate	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzo(b)fluoranthene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzo(k)fluoranthene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzo(a)Pyrene (PAH)	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Dibenzo(a,h)anthracene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L

Sample Id: S-0001494562

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Indeno(1,2,3-cd)pyrene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Benzo(g,h,i)perylene	ND(2)	ND(2)	ND(2)	ND(0.2)	ug/L
Bisphenol A - propylene oxide adducts, LC/UV					
Bisphenol A diglycideryl ether	ND(20)	ND(20)	ND(20)	ND(1.8)	ug/L
Bisphenol A propoxylate	ND(20)	ND(20)	ND(20)	ND(1.8)	ug/L
Bisphenol A diglycidyl ether	ND(20)	ND(20)	ND(20)	ND(1.8)	ug/L
Bisphenol A, LC/UV					
Bisphenol A	ND(10)	ND(10)	ND(10)	ND(0.90)	ug/L

Job Notes:

Testing performed using pH 8 Cl water under NSF Deviation # 2018-027.

This test report replaces test report with serial #FI20180622114106. This test report was reissued due to an update in the trade name, physical description and normalization. The final status of the report is unaffected.

This report replaces previously issued report with serial# FI20180808145725. This report is being re-issued due to renormalization to the highest allowable surface area to volume ratio . This does not change the overall status of the report.

Testing Laboratories:

	Id	Address
All work performed at: ⟶	NSF_AA	NSF International 789 N. Dixboro Road Ann Arbor MI 48105

References to Testing Procedures:

NSF Reference	Parameter / Test Description
C0743	* Acrylonitrile, Acetates and Acrylates by VOC GCMS
C1182	Metals I in water by ICPMS (Ref: EPA 200.8)
C1248	Volatile Organic Compounds (Ref: EPA 524.2) Eaton Analytical
C1249	* 1,3-Butadiene (Modified EPA 524.2)
C2023	BASE/NEUTRAL/ACID EPA METHOD 625 Scan for Tentatively Identified Compounds (TICs)
C2024	Semivolatile Compounds, Base/Neutral/Acid Target 625, Data Workup
C4056	Bisphenol A - propylene oxide adducts, LC/UV
C4057	Bisphenol A, LC/UV

Test descriptions preceded by an asterisk "*" indicate that testing has been performed per NSF International requirements but is not within its scope of accreditation.

ATTACHMENT "E"

Santa Clara Valley Water District

HDR

Meeting Minutes

Project: Name:	**Rinconada WTP Reliability Improvement Project**	Project No.	**93294057**
Date/Day:	**09/05/2018**	Time:	1:30 – 3:30 ☐ AM ☒ PM
Location:	**RWTP Large Conference Room**		
Meeting Topic /Description:	**WWRF Rebar Scan Analysis**		

Attendance:

Roger Hatton	HDR	Patrick Carter	SCVWD
Mitch Kyotani	HDR	Monica Mendez	SCVWD
Bernie Mark	HDR	Terry Cavanaugh	TJCAA
Bob Joakimson	HDR	Daisy Yu	TJCAA
Kyle DeBacker	HDR	Yuriy Stryzheus	BBII
Greg Lindstadt	CDM Smith	Erin Lackey	BBII
Jeff Sellberg	CDM Smith		

1. Yuriy started the meeting with the following points regarding CDM's response to BBII's scanning results provided on 7/31/18
    a. BBII understands TJC analysis
    b. BBII can perform the additional scanning requested by TJC
    c. However, BBII disagrees with the trends TJC presented
    d. Erin sent additional info about 15 minutes prior to this meeting.
2. Erin conducted additional scanning, tried to follow and confirm trends, limited handouts provided
    a. Added additional column to left, "Confirmed Group 1"
    b. Focused on Basin 1, scanned at ~8', 6.5'
    c. Erin's field notes: circle is first scan (two weeks ago), box is second scan
3. Added cover to WWRF Walls
    a. CDC 107 - Starter walls thickened along GL A, B, C, water side
    b. RFI 563 added 1" to wall thickness, full height and width from GL A to C on south face.
4. Concerns raised previously by Engineer: areas with shallow concrete, areas where data is insufficient, areas with too much cover
    a. Shallow concrete: BBII addressed - went up to elevation, scanned around whole basin, found 9 new spots
    b. BBII's data still needs to be verified
5. Yuriy asked when BBII can start group 1 repairs, who will inspect work? Erin will rescan prior to demo.
    a. Need to finish characterizing the issue, need more data (scan areas above 12')

6. Shallow readings between two good readings – is this tie wire?
    a. JJ Albanese has unit that can distinguish between rebar and tie wire
7. Upper portions of basins
    a. Many of the questions from TJCAA analysis are in the upper levels; not enough data
    b. Added inch of cover at starter wall per CDC 107, tapered to contract thickness going up; supposed to be at plan thickness by 8', taper was more gradual than that
    c. TJCAA is expecting one scan around basin, height TBD but above 13.5 ft. If questionable points are found, can request additional scanning.
8. Group 1 Repairs, BBII submitted a CAP and requested CDM Smith review
    a. Need to know how many instances there are that require Group 1 repairs.
    b. **ACTION** BIC TJCAA will review the Group 1 repair procedure
    c. BBII has mockup of Group 1 repair samples using the architectural mockup as their sample board.
9. Damaged rebar (NCN #90)
    a. BBII proposes to scan located rebar before drilling for tie wire
    b. Engineer's concerns: knowing how deep rebar is, fully removing tie wire
        i. Can back drill out, and drill at angle to chase tie wire.
    c. **ACTION** BIC BBII to produce location map of where rebar has been damaged
        i. At Ozone, approximately 15 locations where tie wire removed, patched
        ii. At Floc Sed, about 15 locations where rebar is damaged. Left exposed
10. Documentation
    a. To date correspondence and attachments have been via email. It was agreed to place emails and attachments in eadoc to document progress is resolving the resolution to the deficiency
    b. Future correspondence will continue in eadoc under Deficiency #44 (NCN #44)
    c. **ACTION** BIC HDR Enter summary email from last week's meeting.
    d. **ACTION** BIC HDR Draft meeting notes for today's discussions.
11. CDM Smith/TJC Outstanding Items
    a. **ACTION** BIC BBII - The top 1/3 of the wall require additional scanning as analysis indicates possible rebar issues
    b. **ACTION** BIC BBII - When can Erin's rescan work be witnessed, signed off?
    c. **ACTION** BIC CDM Smith: Respond to Erin's question - For 13.5' and lower, what else is Engineer looking for?
    d. **ACTION** BIC CDM Smith – Provide input on how BBII is to proceed.

ATTACHMENT "F"

Santa Clara Valley Water District | FC 207 (09-17-15) FMC121d

DIRECTED CHANGE ORDER

DIRECTED

CONTRACT NO.: C0601	CONTRACT CHANGE ORDER NO.: 24
PROJECT NAME: Rinconada Water Treatment Plant Reliability Improvement Project	
ORIGINAL CONTRACT AMOUNT: $ 179,850,000.00	CURRENT CONTRACT AMOUNT: $ 184,449,429
TO: Balfour Beatty Infrastructure, Inc., 5050 Business Center Dr, Suite 250, Fairfield, CA 94534 (Contractor)	

You are hereby directed to make the herein described changes from the Drawings and Specifications or do the following described work not included in the Drawings and Specifications on this contract. NOTE: This change order is not effective until approved by the District Board of Directors or staff pursuant to a delegation of authority.

Description of work to be done, estimate of quantities, and prices to be paid segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

CHANGE REQUESTED BY DISTRICT

Per Special Provision Section 11.11.02, the District has the right to issue to the Contractor a Directed Change Order when the District and Contractor cannot agree on the terms and conditions.

This Directed Change Order will extend Milestone 2, completion of Phase 2 work, by one hundred and five (105) calendar days.

The revised Milestone 2, completion of Phase 2 work is April 4, 2017. All subsequent Milestone dates for the completion of Phases 3, 4, 5, and 6 shall be revised accordingly.

Revised Milestones:

Revised Contract Time		Duration	Start	Finish
Phase 2	468+ 105 =	573	9/9/15	4/04/17
Phase 3		158	4/05/17	9/10/17
Phase 4		646	9/11/17	6/19/19
Phase 5		438	6/20/19	8/31/20
Phase 6		62	9/01/20	11/2/20

The Directed Change Order includes all of the terms and conditions as specified in the Contract Specifications and the Contractor is required by the Contract to proceed ahead with the project without further delay or without purposely slowing the progression of work.

The Contractor will not be paid for acceleration or delay compensation, and any/all prior claims during the time extension period. The Contractor will not be compensated or paid for Contractor Extended Overhead Cost in relation to this time extension. There shall be no logic, sequence, critical path, or time changes to subsequent Phases (3, 4, 5, or 6) without the prior review and approval of the District.

The Contractor has the right to follow the Contract regarding any/all Claim issues he deems entitlement to per the Standard Provision Section 5.09.

This Directive Change Order includes, but is not limited to:

1. All Time Extension associated with the late handover of the Upper Sludge Drying Basin to build the New Washwater Recovery Facility.
2. All Time Extension associated with the Electrical and Instrumentation & Control Design Change
3. All Time Extension associated with the Valve and Gate Actuator Voltage Change

Santa Clara Valley Water District | FC 207 (09-17-15) FMC121d.

DIRECTED CHANGE ORDER

DIRECTED

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CHANGE REQUESTED BY DISTRICT

4. Contractor to achieve all construction work related to the Original Contract Scope of Work (SOW) and Change Orders to Date are included in this time extension.
5. Contractor to perform and complete all shutdown and tie-in work within the extended and revised Phase 2 Completion period.
6. Contractor to perform and complete all acceptance testing within the extended Phase 2 completion period.
7. Contractor is allowed to use the available project float to start other Phases (3, 4, 5, & 6) construction work, if all Phase 2 construction work is completed ahead of start of the low flow shutdown period of November 15, 2017. District shall need to review and approve, should the Contractor choose to start of Phases (3, 4, 5, & 6) work early.
8. Should the Contractor anticipate start of subsequent phases (3, 4, 5, & 6) construction work ahead of schedule, Contractor to provide a new CPM Schedule to District for review and approval at least 60 calendar days prior to beginning work; so appropriate review and input may be provided by the District.
9. The Revised Construction Schedule shall show April 04, 2017 as the Final Completion and District acceptance of Phase 2 Contract work.
10. All subsequent and future monthly construction schedule updates shall be measured and reviewed against this New Revised Construction Schedule.

Net Estimated Change in Costs: Decrease $ 0 --OR-- Increase $ 0	By the reason of this order the time of completion will be adjusted as follows: **Original Contract Phase 2 Completion Date:** December 20, 2016 **Revised Contract Phase 2 Completion Date:** April 4, 2017 **Additional Time Extension:** One Hundred and Five (105) Calendar Days

Santa Clara Valley Water District | FC 207 (09-17-15) FMC121d

DIRECTED CHANGE ORDER

DIRECTED

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Description of work to be done, estimate of quantities, and prices to be paid segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

SUBMITTED BY:

Roger Hatton 8/1/17

Roger Hatton, PE(FL), CCM — Date
Construction Manager / HDR

APPROVED BY:

Mike Munson 8/1/17

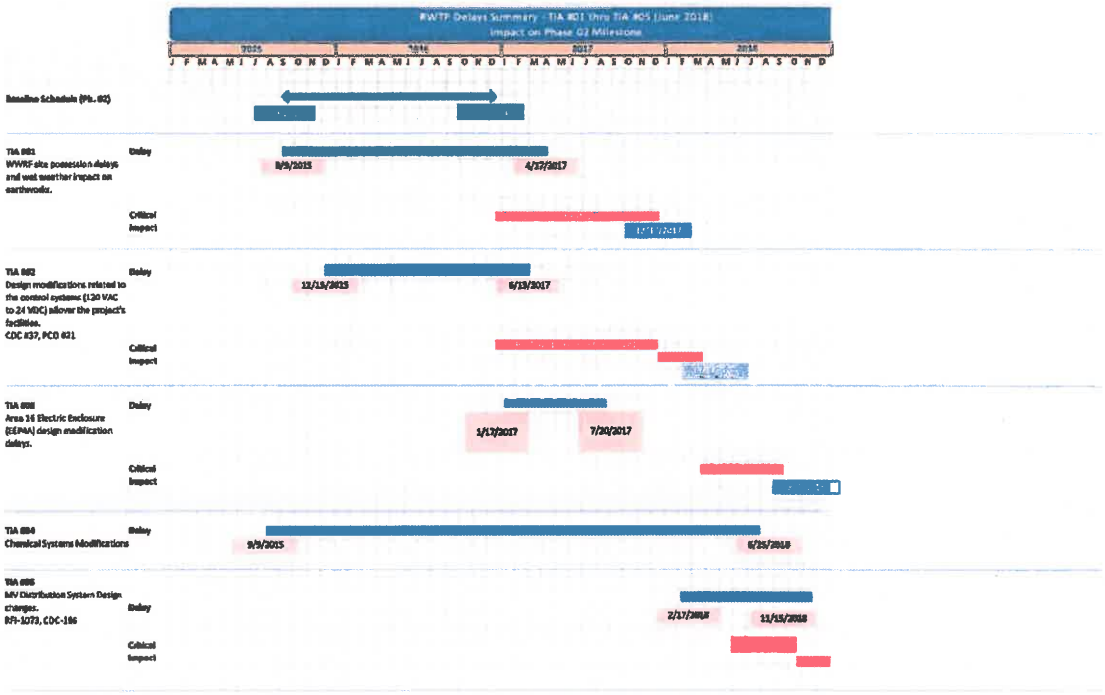
Mike Munson, P.E. — Date
Unit Manager / West Side Project Delivery Unit

ATTACHMENT "G"

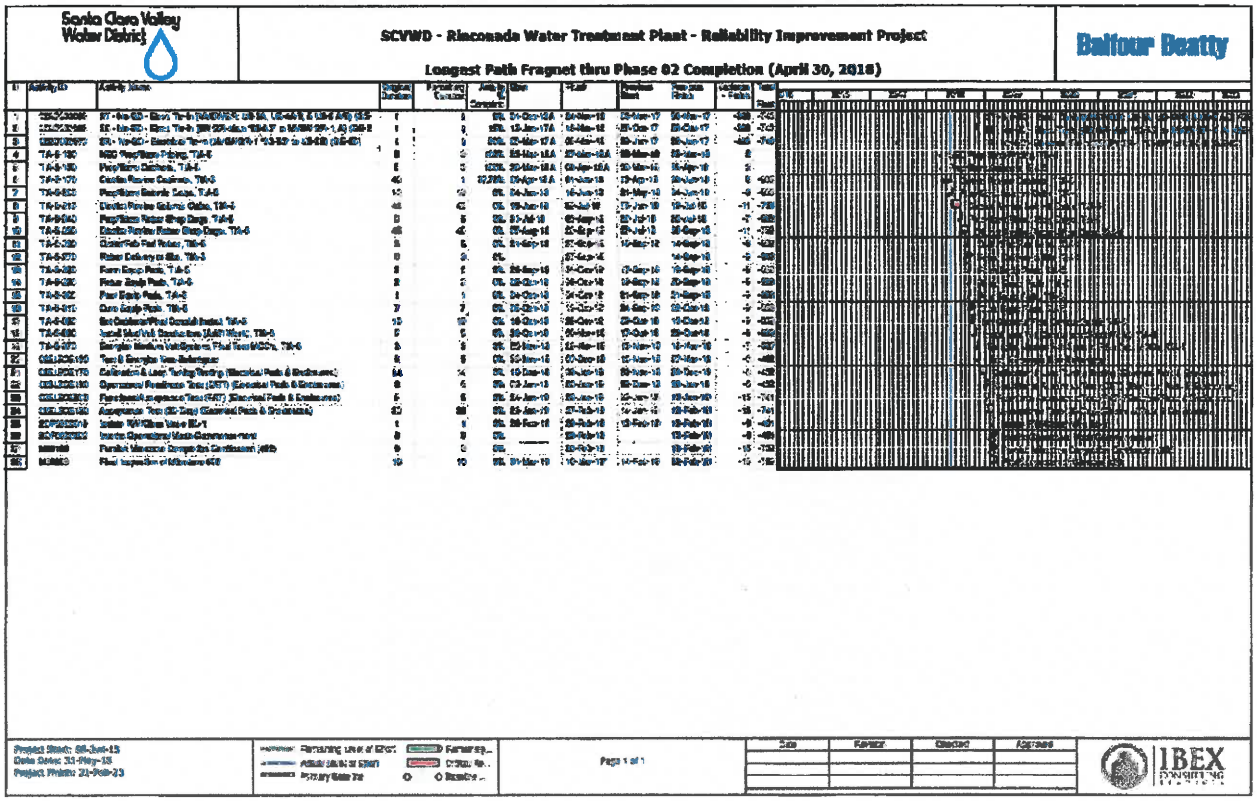
Executive Issue Meeting

June 26, 2018

Summary of Delays



Realistic Ph II Completion Date



Realistic Milestone Dates

Rinconada WTP Reliability Improvement Project – Narrative Report
Updated Schedule of Work (May 2018)

4. Major Milestones & Key dates

The following table reflects the calculated earliest dates for major milestones and summaries (as of 4/30/2018):

Activity Name	Start	Finish
Sign Contract	26-May-15 A	
Notice to Begin Work (NTB)	25-Jun-15 A	
First Chargeable Day (FCD)	20-Jul-15 A	
Start Phase 01	20-Jul-15 A	
Phase 01 Overall Duration	20-Jul-15 A	08-Sep-15 A
Overall Project Duration (per NTB Letter 07/20/15 thru 07/29/20)	20-Jul-15 A	21-Feb-23
Mobilization	20-Jul-15 A	10-Aug-15 A
Conduct Environmental Awareness Training	20-Jul-15 A	20-Jul-15 A
Final Inspection of Milestone #01	08-Sep-15 A	08-Sep-15 A
Furnish Milestone Completion Certification (#01)		08-Sep-15 A
Start Phase 02	09-Sep-15 A	
Phase 02 Overall Duration	09-Sep-15 A	10-Mar-19
Furnish Milestone Completion Certification (#02)		28-Feb-19
Final Inspection of Milestone #02	1-Mar-19	10-Mar-19*
Start Phase 03	11-Mar-19	
Phase 03 Overall Duration	11-Mar-19	1-Dec-19
Furnish Milestone Completion Certification (#03)		21-Nov-19
Final Inspection of Milestone #03	21-Nov-19	02-Dec-19*
Start Phase 04	1-Dec-19	
Phase 04 Overall Duration	1-Dec-19	27-Dec-21
Furnish Milestone Completion Certification (#04)		17-Dec-21
Final Inspection of Milestone #04	18-Dec-21	27-Dec-21*
Start Phase 05	28-Dec-21	
Phase 05 Overall Duration	28-Dec-21	21-Dec-22
Furnish Milestone Completion Certification (#05)		13-Dec-22
Final Inspection of Milestone #05	12-Dec-22	21-Dec-22*
Substantial Completion		21-Dec-22
Contract Completion Date (Milestone 06)		21-Feb-23*

* Indicates a Contractual milestone applied constraint.

Realistic Completion Dates

- These dates are the current completion dates per the Contract Documents as amended to date.
- Future design changes and unforeseen site conditions have the potential to affect these dates.
- Mitigation efforts are discussed below under "Opportunities for District / BBII Coordination – To Improve Schedule".

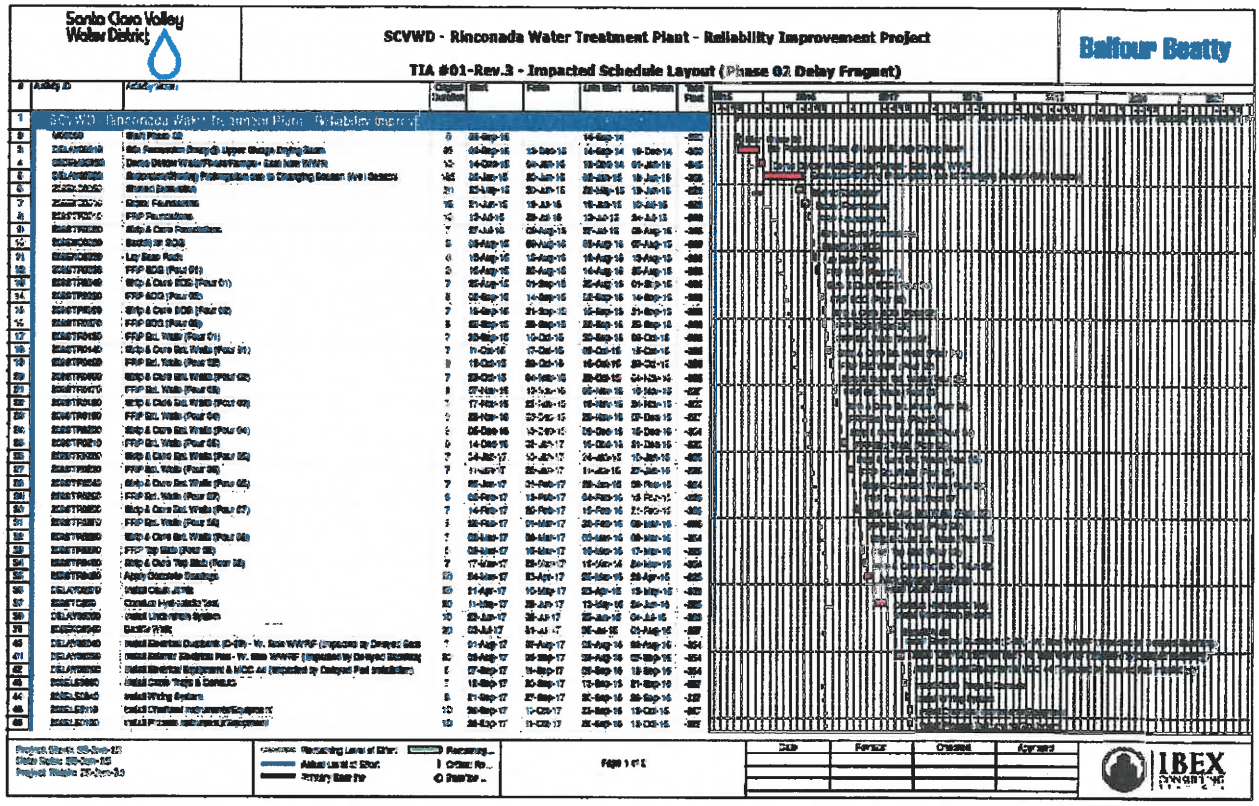
TIA-1 Site Possession Delay

Events Giving Rise to Excusable Delay

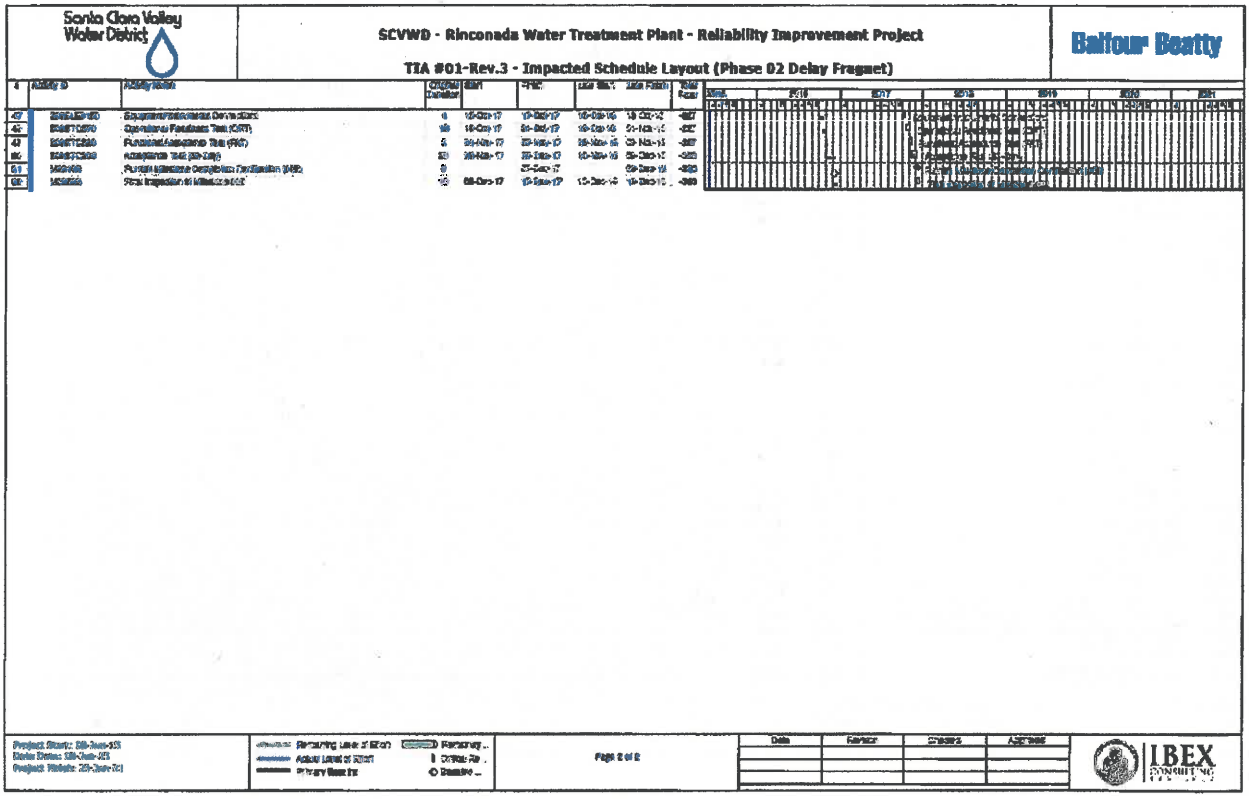
- **Site Possession Delay -** The District failed to timely provide Balfour access to the Upper Sludge Drying Basins until mid-December 2015.

- **Shored Excavation Delay -** As a result of now having to perform this work during the wet winter months contrary to its plan and schedule, the excavation was slowed and at times halted altogether.

TIA-1 Site Possession Delay



TIA 1 Site Possession Delay



DRB's Conclusions on TIA-1

(excerpts)

Delay 1: A site possession delay to the upper sludge drying basins...

- Dispute Resolution Board conclusion no. 19: **The District is responsible for the delay associated with the access to Area 8 in Phase 2.**

Delay 2: A delay due to inclement weather...

- Dispute Resolution Board conclusion no. 18: **The second delay included in TIA 1 (shored excavation delay) cannot be evaluated at this time.** Based on testimony presented at the hearing, the asserted 120V AC to 24VDC change delay, evaluated in BBII TIA 2, is concurrent with the shored excavation delay claim. **Evaluation of any time impact associated with the shored excavation needs to be evaluated with subsequent TIAs.**

TIA-2 Control Panel Voltage

- In early December 2015, BBII submitted Control Panel Hardware for review and approval. The District design consultant, CDM Smith, returned their comments on this submittal internally to the District on 12/11/15 as "revise and resubmit" with the comment, "District team is working with HDR and CDM to convert 120VAC PLC control cabinets and instrument panels to 24VDC. Changes will be documented in an upcoming CDC. Therefore, this submittal may require revision as a result of these changes." Hence, the District was aware of large impending voltage change/impact on or before 12/11/15.

- The District issued CDC #37 on 1/20/16 that amended the Contract Document such that field instrumentation originally shown as supplied by a 120 VAC UPS circuit, should be changed to 24 VDC power. This was explained to BBII as an Owner and plant operations request to make the system safer to work on and without having to implement higher standards of personnel protection when working in the control panels.

TIA-2 Control Panel Voltage

- On 03/28/2016, the contractor received the District's approval on the said modifications and was directed to proceed with the additional works.
- The District did not determine the complete extent of change until the District amended their CDC #37 with DCM-98 on 9/16/16.
- The District directed changes in CDC #37 are large and, in addition to CDC #37, the District has issued over 200 CDC's to date, some of which affected this change. The District's significant increase in the scope of work for our subcontractors and suppliers became the overriding schedule issue and superseded delays indicated by the schedule logic.

TIA-2 Control Panel Voltage

- The District's CDC #37 changes were pervasive and brought up many questions, large and small, throughout the panel design. BBII's subcontractors and vendors lost time formulating and presenting these questions to the District and also waiting on answers from the District in RFI's and in design meetings, phone conversations, and emails. This impact ran, at least, from the District's issuance of PCO #26 to RFI-441 regarding the terminal blocks used in I&C panels which delayed both submittals and resubmittals.
- In addition to the delay in the start of the above mentioned installation works, the Contractor will require additional duration to complete the installation works, as a result of the added (85) additional IPP's and (21) CPP's, all of which affect the completion of phase 2.
- The time impact of the additional work issued under PCO #26 impacts the contractual completion date of phase by 344 calendar days.

TIA-3 Area 16 Electrical Enclosure

- The District issued several design changes to electrical enclosure building EEP4A in Area-16 over a long period of time that would affect panels and equipment inside of EEP4A.
- The earliest was CDC-37 that the District issued on 01/20/2016 that changed interiors of IPC panels and, in conjunction with District's response to RFI-135, increased the size of Panel REEP4ACP740.
- The District issued CDC-51 on 05/19/2016, that added control voltage that, in turn, increased the size of and length of two MCC's inside of EEP4A.
- Another significant change came in CDC-68 on 06/28/16 that added a concrete cable trench beneath EEP4A along with access openings and covers inside of EEP4A. All this affected the coordination or layout of equipment and piping inside of EEP4A.

TIA-4 Chemical System Changes

- This is a placeholder for the multitude of **chemical system** design changes and differing site conditions with the existing chemical systems.
- To date there are approximately 65 separate design issues and differing site conditions that have been reported to the District that are contributing to this delay.
- The District has acknowledged 58 of these to date with PCO's.
- As this is an on-going issue with frequent design changes and newly discovered differing site conditions, it is not possible to know the full extent of impact to the construction schedule for these changes at this time.

TIA-5 Medium Voltage Distribution

Background

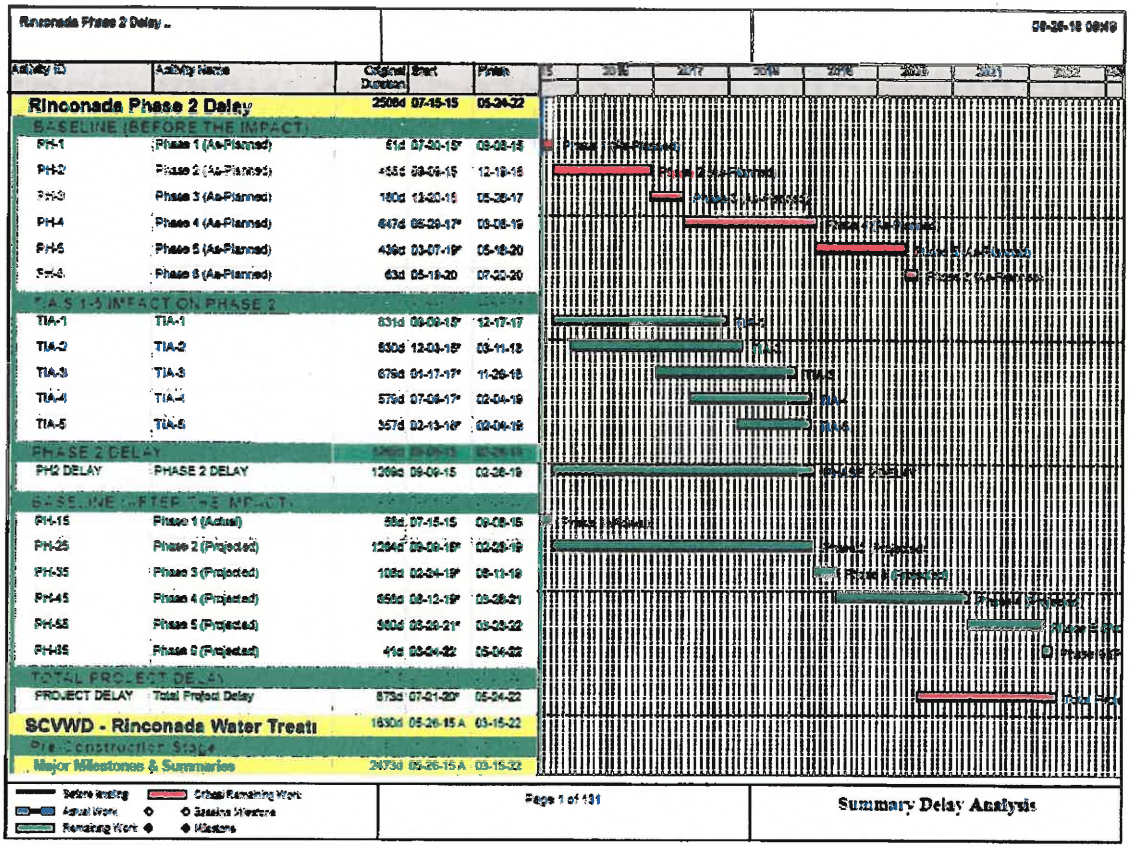
The medium voltage distribution system provides power to most of the Phase II equipment and controls. Power is required for startup and testing of nearly all Phase II systems. The medium voltage distribution system has been delayed by a last minute District design change where underground vaults above pipelines were replaced by new ground level cabinets at Area-13. After field meetings and discussion and after RFI-1073, the District formally directed this design change with their issuance of CDC-196 on March 8th, 2018. The District's direction suspended the ongoing medium voltage distribution system work and required removal of previously installed electrical ductbank. CDC-196 requires installation of new pad mounted electrical cabinets and rerouting of the medium voltage systems ductbanks. This delay started shortly after submission of RFI-1073 on February 13th, 2018. Consequently, we are showing the impact in the February 2018 Update schedule.

TIA-5 Medium Voltage Distribution

Impact

Before new medium voltage cabinets and other equipment can be installed, the materials for this new installation must first be procured. Procurement of the pad mounted medium voltage cabinets will require design, District approval, fabrication, and delivery to the site. The new concrete pads, where the new cabinets will be mounted, will also require design and District approval. There will be design and District approval for both the seismic requirements of the pads and the pad rebar required prior to fabrication and delivery of the rebar to the site. Only after the pads are poured and cured can the new medium voltage distribution cabinets be installed. The installation of the medium voltage conductors that run to the cabinets cannot be installed nor terminated until after the cabinets are set. Only after the medium voltage distribution system is completed and energized can power be supplied to medium voltage transformers and switchgear at Area-13 and the power be supplied to EE4PA and to most other areas of new Phase II construction. Finally, power is required for the startup and test of systems and equipment throughout Phase II.

TIA's 1-5 Summary

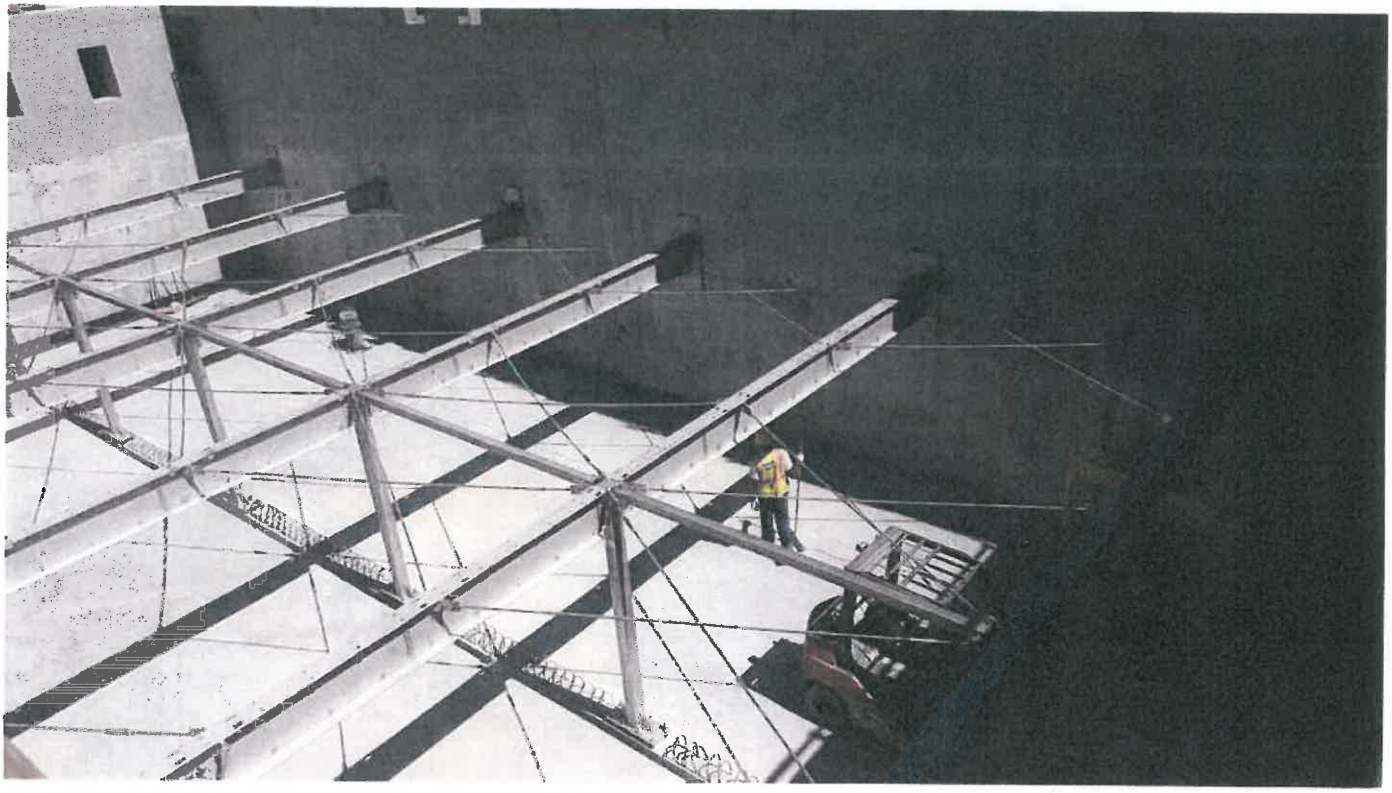


BBII's Prosecution of the Work

BBII has diligently prosecuted the work since July 2017.

- The Certified Payroll Reports verify this.
- The Schedule updates verify this.
- The monthly pay apps verify this.
- Progress photos verify this.
- A project job walk will verify this.

Floc-Sed Progress July 2017

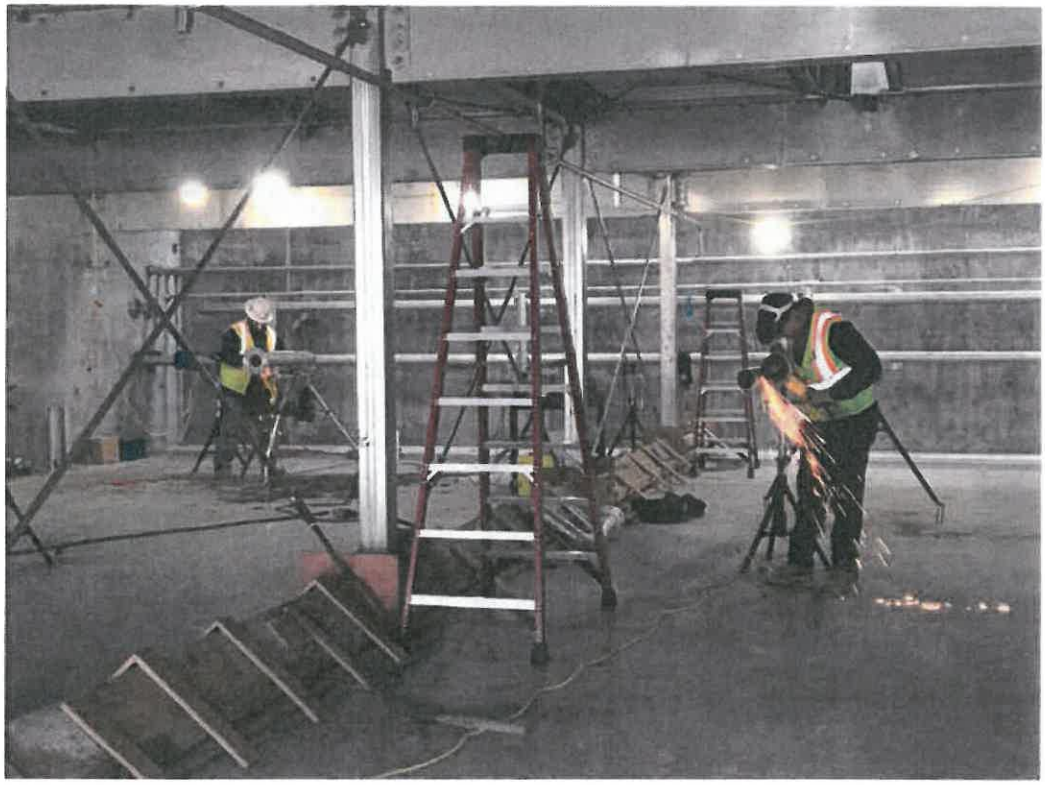


Floc-Sed Progress August 2017

Floc-Sed Progress September 2017

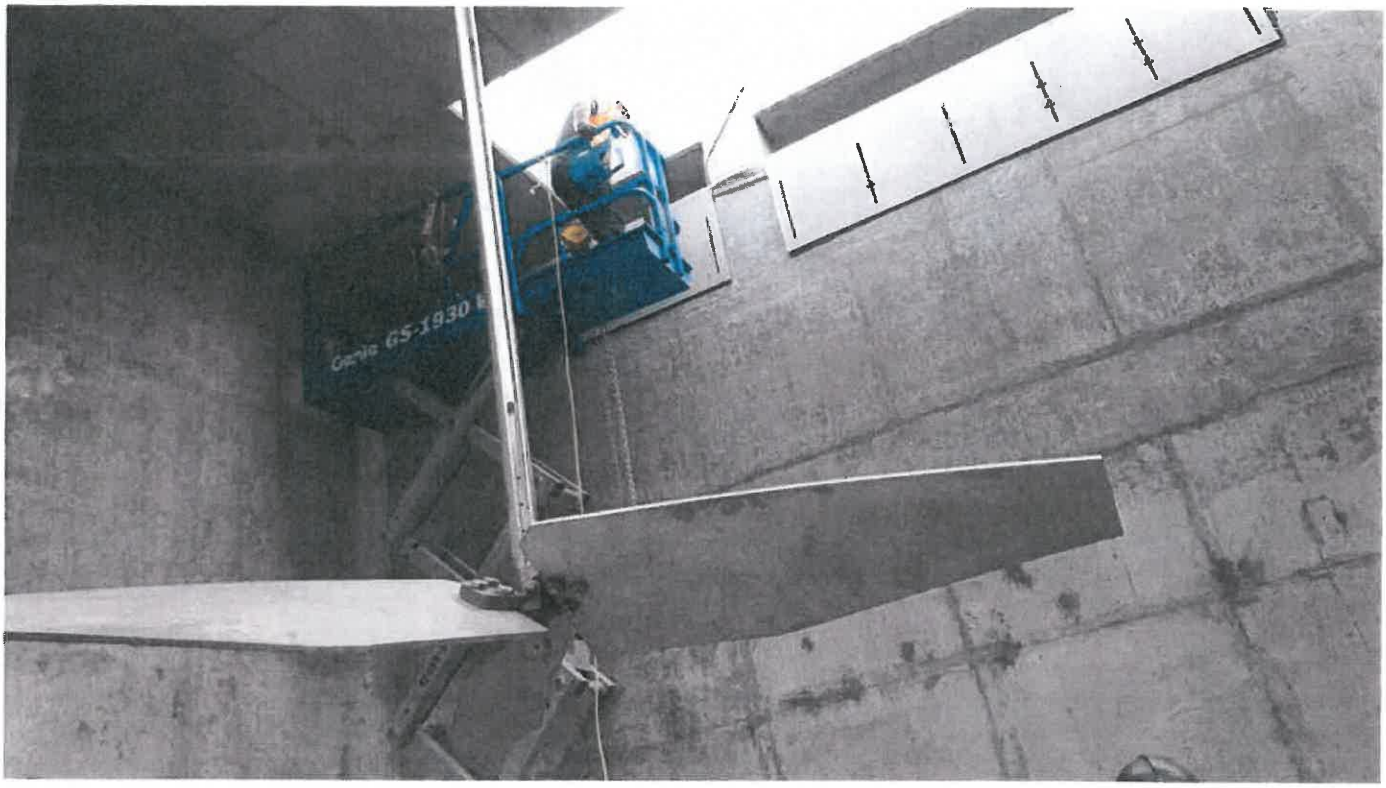
Floc-Sed Progress October 2017

Floc-Sed Progress November 2017



Floc-Sed Progress December 2017

Floc-Sed Progress January 2018



Floc-Sed Progress March 2018

Floc-Sed Progress April 2018

Floc-Sed Progress May 2018

Floc-Sed Progress June 2018

Concrete Correction Plans

Ozone Contactor Structure

NCN 22 - Plastic Rebar Supports - Ozone Resistance Issue

- BBII/Alamillo Rebar Submitted RFIs 792, 888, 888.1, 888.2 establishing the procedure to locate, remove and patch the plastic rebar chairs in the OCS.
- The removal and process was observed in the field by HDR Inspectors – Ref. RFI 888.1 Response.
- BBII located and removed the Rebar chairs per RFI 888.
- BBII re-Mobilized in June 2017 after subsequent exploration indicated additional rebar chairs.
- BBII submitted a total of three (3) CAPS, the most recent of which was on Friday, 06/22/2018.
- Rebar chair removal work will not impede the watertightness testing (currently ongoing for the west half of the OCS).
- Rebar removal is complete in the cells that receive Ozone Diffuser piping.

Concrete Correction Plans

Ozone Contactor Structure (cont'd)

NCN 22 - Plastic Rebar Support - Potential NSF 61 Issue

- NSF 61 Issue resolved by removing plastic rebar chairs (Ref RFI 792, 888 & CAP), Confirmed with the response to RFI 745.1.
- Any Remaining NSF 61 Issues resolved by the NSF 61 Test Results for the plastic rebar chairs presented in RFI 745.2 submitted on 6/22/2018.

NCN 67 – Concrete Bug Hole Issue

- Finishing work was completed concurrently by BBII as the rebar chair removal progressed. No longer applies to the OCS.
- BBII disagrees that concrete finishing is a defect as proscribed in the contract.

Concrete Correction Plans

Floc-Sed Basins

NCN 22 / NCN 85 - Plastic Rebar Chair NSF 61 Issue

- Plastic rebar chairs were used in the walls and approximately 50% of the deck.
- Criteria for testing and NSF acceptance was outlined in RFI 745 & 745.1.
- NSF 61 Test Results for the plastic rebar chairs presented in RFI 745.2 submitted on 6/22/2018 resolved this issue.
- CAP was issued by BBII on Monday 6/25/2018 to close NCN 85. No further action on this issue should be required.

NCN 67 – Concrete Bug Hole Issue

- Finishing work at the Floc/Sed will resume after the watertightness test is complete.
- BBII disagrees that concrete finishing is a defect as proscribed in the contract.

Concrete Correction Plans

Wash Water Recovery Facility

NCN 22 / NCN 86 - Plastic Rebar Chair NSF 61 Issue

- Stainless Steel Chairs were used in the deck, the plastic rebar chair issue only applies to the walls.
- Criteria for testing and NSF acceptance was outlined in RFI 745 & 745.1.
- NSF 61 Test Results for the plastic rebar chairs presented in RFI 745.2 submitted on 6/22/2018 resolved this issue.
- CAP was issued by BBII on Monday 6/25/2018 to close NCN 86. No further action on this issue should be required.

NCN 67 – Concrete Bug Hole Issue

- Finishing work is ongoing in the WWRF.
- BBII disagrees that concrete finishing is a defect as proscribed in the contract.

Concrete Correction Plans

Wash Water Recovery Facility (cont'd)

NCN 44 – Reinforcing Without Minimum Concrete Cover

- BBII scanned the walls of the Washwater Recovery using a Hilti Ferroscan PS 200 rebar scanner as per Memo 790 in order to record concrete cover depths.
- BBII assembled the scanning data and maps for the Washwater Recovery Basins 1 & 2 and submitted the CAP on Friday 6/22/2018 in order to close out NCN 44.
- The scanning data and the proposed repair plan was presented in the CAP was subsequently followed up with confirming RFI 1202 on Monday 6/23/2018.
- Once the CAP is approved, BBII estimates that the repair work in the WWRF should take approximately 2-3 weeks and will not impact any ongoing mechanical work inside the Washwater Recovery Basin.

Other Concrete Issues Raised

- Pacific Structures sub listing – not an issue.
- Formwork and Falsework submittals – not an issue.
- Improper location of watertight access doors – resolved.
- Leak test in WWRF – resolved.
- 2x4 piece left in concrete – resolved.
- <0.5 cy of concrete in top half of OCS skylight curb was placed beyond time limit – being resolved.

Opportunities for District / BBII Coordination

To Improve Schedule

- Schedule the DRB for a total Phase II TIA 1-5 delay hearing in September/October 2018.
- Agree on realistic milestone and completion dates with the resolution of the TIA's.
- Limit future design changes.
- Lift work restrictions (work hours/days, trucking).
- De-scope add alternates (Reservoir liner, Fluoride Facility).

Opportunities for District / BBII Coordination

To Correct Defective Concrete

- Better coordination with the Special Inspector.
- Better coordination with the Design Engineer.

Opportunities for District / BBII Coordination

To Secure State Approvals of Corrective Work

- BBII has submitted the NSF testing results for the District's use in obtaining State Approval.
- No other issues are known at this time.