



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

PHILIP D. MURPHY  
*Governor*

SHAWN M. LATOURETTE  
*Commissioner*

SHEILA Y. OLIVER  
*Lt. Governor*

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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Conference Call Minutes for January 20, 2022

*Approved by the Board on February 17, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone:** Art Becker (Chairman), Gary Poppe (Vice-Chairman), Dave Lyman, Gordon Craig, Richard Dalton, and Eric Hoffmann

**Board Members Absent:** Joe Yost, Jeff Hoffman, and Steve Domber (S. Domber called in briefly to break a tied vote)

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Michael Schumacher, Mark Ortega, and Steve Vargo

**Other:** Nicholas Toth; New Jersey Division of Labor (DOL)

**Members of the Public:** Denis Crayon; Summit Drilling, Dermot Dillon; Summit Drilling/New Jersey Ground Water Association (NJGWA)

#### 1. Call to Order-

The meeting was called to order at 9:35 am with a quorum present. This meeting was held via conference call and Microsoft Teams video call due to the COVID-19 pandemic. Notice of the meeting and instructions on how to participate by phone or video were listed on the Department's website.

A. Becker welcomed Mr. Dermot Dillon and Mr. Denis Crayon to the call.

#### 2. Review and Certification of the December 16, 2021 Conference Call Minutes-

A motion to approve the draft minutes from December 16, 2021 as written was made by G. Poppe, seconded by G. Craig, and approved by all except for D. Lyman who abstained.

### 3. Licensing-

#### *Review of License Applicant*

A. Becker asked if there was any discussion needed for the one license applicant, Mr. Ryan Poust, who applied for a Pump Installer license. No further discussion was needed.

License Type	Applicant Name	Employer
Pump Installer	Ryan Poust	R. Poust, Inc.

**A motion to approve the one pump installer for licensure was made by G. Poppe. This motion was seconded by D. Lyman and approved unanimously.**

### 4. Continuing Education-

#### *All Star Training*

A. Becker discussed All Star Training's approved courses, which the Board had reviewed in prior months. He noted that this new seven-hour course would include those courses plus three additional one-hour modules. S. Reya briefly discussed All Star Training's former course that was previously approved as seven-hour course and later revised and reduced for fewer hours due to the concerns previously brought to the Board's attention by former Board member, Joe Pepe. It was noted that, if approved, All Star Training would replace the previous seven-hour course with this new one.

All Star Training provided a synopsis of the three new courses. They also provided A. Becker and Department staff with login information to watch each course for quality control. S. Reya said that each course ranged between 53 and 55 minutes in length and included a quiz at the end of each module. S. Reya also discussed the protections in place to make sure that an individual remains at their computer for the duration of the presentation. One such measure was that the user would be logged out for inactivity.

A. Becker praised the presenter, saying that he is very knowledgeable about the subject matter. He also noted that it was unusual that the presentation does not restart where you left off when the user gets logged out for inactivity while watching the video. A. Becker asked for the Department to bring this up during correspondence with All Star Training if the course is approved. He stated that the course should pick up right where the user left off and not start back at the beginning every time it times out and allow one to fast forward through the presentation. A. Becker also noted that a user cannot start another module without first completing the course and passing the quiz at the end of the module.

A. Becker asked if any further discussion was needed. No further discussion was needed.

**A motion to accept the updated 7 Hour Water Well Course and to mention issue with the course not picking up where the user stops if inactive for too long was made by G. Craig. This motion was a seconded by E. Hoffmann and approved unanimously.**

#### *NJGWA*

A. Becker introduced the NJGWA March 2022 Membership Meeting with PFAS 101 course. He said that he has personally seen Ms. Kellog speak before on this subject and said that she is very knowledgeable about the subject. NJGWA requested two technical continuing education points (CEPs). A. Becker asked if any further discussion was needed.

R. Dalton discussed his concerns with allowing this course to be approved for two CEPs. He said that the PFAS 101 presentation should be one point, but the meeting should only count for half of a point.

G. Craig said that he would be agreeable to R. Dalton's suggestion. R. Dalton continued by saying that during the meeting portion, a licensee will not receive a full hour of training. G. Poppe disagreed and said that that networking opportunities and discussions that take place during these meetings make it worthwhile and industry related. R. Dalton argued that everyone will get a point, even if they choose not to network or speak to other members of the industry. A. Becker said that he understands R. Dalton's argument, but he agrees with G. Poppe. He continued by saying that it is important for the attendees to hear about the state of the industry and hear from the Board members, who regularly attend. Mr. Dermot Dillon noted that the attendees also take time to discuss what certain county Health Departments are doing and bring up local issues that are encountered, which is beneficial to attendees. R. Dalton explained how other industries only receive credit for attending a meeting when training was provided during the meeting.

**A motion to accept the NJGWA March 2022 Membership Meeting with PFAS 101 course for 1.5 technical CEPs was made by G. Craig. This motion was seconded by R. Dalton. E. Hoffmann voted in favor of the motion. A. Becker, G. Poppe, and D. Lyman voted against the motion. The vote was tied and the motion was put on hold until another Board member could join the meeting (see item 6).**

S. Reya said that he can reach out to S. Domber to try to be the tie breaker. S. Reya suggested tabling the vote temporarily until S. Domber can join the call.

E. Hoffmann added to the conversation by saying that the Licensed Site Remediation Professional (LSRP) Board does not grant licensees credit for attending LSRP meetings unless there is a presentation. He said that a half point is generous.

## **5. NJ Department of Labor-**

Nicholas Toth, of New Jersey DOL, joined the call. S. Reya said that several Department staff members recently had a meeting with Nick regarding perceived labor shortages in the industry.

N. Toth thanked everyone for allowing him to present the Broad information about his Program's grant material. He talked about their funding and said that they have six apprenticeship-related grant programs. He explained each of the six grants to the Board.

N. Toth asked the Board if they had any questions regarding any of these grant opportunities. He also asked if there are any hiring needs in the industry. He continued by saying that if there are employers out there who are interested in hiring/training then his group should be able to help. A. Becker deferred to Mr. Dermot Dillon, who is the President of the NJGWA. Mr. Dillon said that there is a huge need for help in the industry. He spoke personally and said that his company needed six people. Mr. Dillon talked about the Public Works Contractor Registration (PWCR), which limits the work that his company can perform. He extended the offer to have N. Toth attend a future NJGWA Membership Meetings to discuss these grant opportunities. N. Toth talked briefly about the PWCR and said that his office provides funding and technical assistance to navigate that policy.

E. Hoffman asked if these grants help cover the costs of training and continuing education. N. Toth said that after a company is registered, any applicable training would be covered. A. Becker asked if the grants help reimburse companies who train new employees to be well drillers or pump installers. N. Toth said that they are open to paying for those costs if it was deemed to be a part of their apprenticeship program.

A. Becker thanked Mr. Toth for his time. He asked S. Reya if he had Nick's contact information available in case any of the Board members had any additional questions. S. Reya asked N. Toth if there was a general contact for questions and appropriate website to which he could refer interested individuals. He said that they have contact information posted on their website and that he will put together a packet of information and send to S. Reya for distribution.

## **6. Continuing Education (continued)-**

### *NJGWA Course (continued)*

S. Domber joined the call to cast his vote. S. Reya explained the tabled motion which G. Craig made; one point for the presentation and half of a point for the meeting. S. Domber voted in favor of G. Craig's motion.

**A motion to accept the NJGWA March 2022 Membership Meeting with PFAS 101 course for 1.5 technical CEPs was made by G. Craig. This motion was seconded by R. Dalton. E. Hoffmann and S. Domber voted in favor of the motion. A. Becker, G. Poppe, and D. Lyman voted against the motion. The motion passed.**

### *Course Approval Issuance*

A. Becker introduced the topic. The Department and Board received an inquiry from Mr. Denis Crayon. A. Becker asked Mr. Crayon to explain his situation. Denis explained that he has been approved to teach a few courses by the Board. He asked how the course continues to be administered properly if he is no longer with the company and inquired about the specifics of whether a course approval is issued to a course provider (company) or the individual instructor. He asked for clarification regarding if an online/pre-recorded course could be offered if the course instructor is no longer employed by the company. R. Dalton deferred to J. Denyes.

S. Reya gave the Department's viewpoint. He added that the Department would remain silent on the subject unless the provider stopped complying with the terms of the approval letter which was issued.

J. Denyes explained that she can only really advise the Board and not Mr. Crayon as she is legal counsel to the Board. She told the Board members that this sounds like something that needs to be worked out between Mr. Crayon and his employer.

S. Reya talked about how the Department sends the course approval letter to the person who sent the application. He added that this is not always the person who is teaching the class. Although the course instructor must be qualified to teach the course, administrative staff or company owners are often the ones submitting the course application materials.

A. Becker thanked Denis for the question and for joining the call.

## **7. Enforcement Update-**

S. Reya provided an update on enforcement and thanked the Board with their patience with the scant updates after J. Altieri retired. He explained that in order for Well Permitting to revamp and streamline the enforcement process, a temporary hold needed to be put on sending out enforcement documents.

S. Reya said that 52 Notices of Non-Compliance are currently drafted. S. Reya briefly discussed some of the perceived violations, which ranged from drilling wells without permits, not casing 10 feet into

competent bedrock, and not meeting site-specific permit conditions. S. Reya noted that the most egregious and time sensitive violations were going to be mailed out first.

**8. Disinfection of Private Wells by an Unlicensed Individual-**

A. Becker asked J. Denyes if there was an update for the disinfection topic. J. Denyes apologized and said that her office's guidance for J. Hoffman's question is still pending. A. Becker expressed his disappointment with the priority that the Board is given on this subject. A. Becker asked J. Denyes if she could pass along his comment to her management and let them know that the Board would like some action taken and a bit more attention paid to them when they bring up potential issues.

**9. New Items/Comments from the Public-**

*Horizontal Directional Drilling (HDD)*

S. Reya thanked A. Becker and G. Craig for their assistance with the Science Advisory Board (SAB) and their recommendations for HDD. The SAB finalized their report, which focuses on HDD, in October. S. Reya said that the SAB plans to meet with the Commissioner on February 10<sup>th</sup> to discuss their findings. He said that after the Commissioner is briefed on the report, Department staff will share the findings of the report in a future Board meeting.

E. Hoffman departed at 10:58 am.

*Well Permitting Update*

T. Pilawski explained the Well Permitting Section's staffing needs. She said that Well Permitting was approved to hire an Agency Services Representative to replace Amanda Blanda, who retired in 2020. There are also three open hourly positions. T. Pilawski noted that she is still working on having J. Altieri's position posted.

J. Mattle briefly talked about Well Permitting sending an Order to Seal letter out to a property owner who needs to have 87 wells sealed.

S. Reya said that Well Permitting staff would be sending out a letter to all licensed well drillers and pump installers in the next week or two. The serves as a reminder for all eligible licensees to obtain their CEPs prior to March 31, 2023. It also provides the licensees with the new Licensing email: [wdpi@licensing.nj.gov](mailto:wdpi@licensing.nj.gov). This new email will be used for all licensing and continuing education-related inquiries.

*Woodbury Geothermal Well Field*

S. Reya said that there has been some progress to finalize sealing the last few wells on this site. At the end of 2021 the Department sent a letter advising the property owners to move any obstructions covering the remaining wells.

*CEP Update*

A. Becker asked for an update on the CEP status for all well drillers and pump installers. M. Ortega said that while he didn't have the report open, there was approximately 200 licensees who had started earning CEPs back in November, when he last viewed the report. There are approximately 790 licensees, so there are still a lot of individuals who need to start earning their points. M. Ortega said that he would provide an update to the Board members via email with the updated figures.

**10. Adjournment-**

A. Becker thanked everyone for attending. The next scheduled meeting is on Thursday, February 17, 2022.

**At 11:12 am, a motion to adjourn the meeting was made by G. Poppe, seconded by D. Lyman, and approved unanimously.**



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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Conference Call Minutes for February 17, 2022

*Approved by the Board on March 17, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone:** Joe Yost, Gordon Craig, Dave Lyman, Richard Dalton, and Jeff Hoffman

**Board Members Absent:** Art Becker, Gary Poppe, Steve Domber, and Eric Hoffmann

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** Jeff Tomlin, Municipal Maintenance

#### 1. Call to Order-

G. Craig called the meeting to order at 9:33 am with a quorum present via telephone and video call via Microsoft Teams. Notice of the meeting and instructions on how to participate by phone or video were listed on the Department's website.

#### 2. Review and Certification of the January 20, 2022 Conference Call Minutes-

A motion to approve the draft minutes from January 20, 2022 as written was made by R. Dalton, seconded by G. Craig, and the minutes were approved by acclamation.

#### 3. Licensing-

##### *Review of License Applicant*

S. Reya said that there was one license applicant who applied for their pump installer license. Mr. Robert L. Carbone met the Department's criteria for licensure. No further discussion was needed.

License Type	Applicant Name	Employer
Pump Installer	Robert L. Carbone	Stovers Wells & Pumps Inc.

**A motion to approve the one pump installer for licensure was made by G. Craig. This motion was seconded by J. Hoffman and approved unanimously.**

#### **4. Continuing Education-**

Four (4) course applications were reviewed and deemed administratively complete by the Department. Prior to the meeting, the Department provided the Board with the course applications for review. S. Reya noted that M. Ortega provided some additional information for Duff Co's course, Pump & Water Treatment Seminar, as requested by R. Dalton.

*Marshall & Sterling/Parkhurst – 4 Hour Safety Course*  
No discussion needed.

**A motion to accept the 4 Hour Safety Course was made by R. Dalton, seconded by J. Yost, and approved unanimously.**

*Master/Parkhurst – Water Source, Contaminants, and Treatment Technologies*  
M. Ortega noted that this course was previously approved in May 2020, at the beginning of this continuing education cycle. The course was previously approved by the Board for 4.5 technical continuing education points (CEPs). The provider is asking to reduce the total amount of points to 3.5 CEPs.

**A motion to accept the Water Source, Contaminants, and Treatment Technologies course for 3.5 CEPs was made by J. Yost. This motion was seconded by D. Lyman and approved unanimously.**

*Duff Co. – Pump & Water Treatment Seminar*  
No discussion needed.

**A motion to accept the Pump & Water Treatment Seminar course for six technical CEPs was made by R. Dalton. This motion was seconded by G. Craig and approved unanimously.**

*International School of Well Drilling – Pumps II*  
No discussion needed.

**A motion to accept the Pumps II course for one technical CEP was made by J. Yost. This motion was seconded by D. Lyman and approved unanimously.**

#### **5. CEP Status Update-**

M. Ortega provided the Board with a brief update on the CEP completion status for New Jersey licensed well drillers and pump installers. He reminded the Board that the Department mailed a letter to all licensees on January 26<sup>th</sup> and followed up with an email with the same information on January 28<sup>th</sup>. Since sending out that information, there has been a slight uptick in submittals.

M. Ortega noted that approximately 20 new licensees have started earning CEPs since the letter was sent. Approximately 48 percent of all licensees have started earning credit. He noted that there are several large providers offering courses, including Aquaflo, Parkhurst, Duff Co, and the Drilling



Tech Group, between late-February and early-May. He added that there are approximately 65 online courses approved between the International School of Well Drilling, the National Ground Water Association, and All Star Training.

J. Yost asked if there was a limit set on CEPs earned via online classes. M. Ortega explained that the Board had discussed having a limit of eight online CEPs per cycle, but the Department expressed that it would be difficult to track this subcategory. At this time, there is no limit to the amount of online CEPs that a licensee can earn. He expressed that due to COVID, the number of online courses has grown tremendously. J. Yost thanked M. Ortega for the information and the update.

**6. Adjournment-**

S. Reya thanked everyone for attending. M. Ortega reminded the Board members that the next scheduled meeting will be held on Thursday, March 17, 2022.

**At 9:49 am, a motion to adjourn the meeting was made by J. Hoffman, seconded by J. Yost, and approved unanimously.**



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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for March 17, 2022

*Approved by the Board on April 21, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone:** Art Becker (Chairman), Gary Poppe (Vice-Chairman), Dave Lyman, Gordon Craig, Richard Dalton, and Eric Hoffmann

**Board Members Absent:** Joe Yost, Jeff Hoffman, and Steve Domber

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** Tom Stover; Stover's Wells & Pumps, Brian McGuire; SGS North America Inc./New Jersey Ground Water Association (NJGWA), Wesley Eichfeld; SGS North America Inc., Bill Buschur; Total Green Manufacturing (Total Green)

#### 1. Call to Order-

The meeting was called to order at 9:31 am with a quorum present. This meeting was held via conference call and Microsoft Teams video call due to the COVID-19 pandemic. Notice of the meeting and instructions on how to participate by phone or video were listed on the Department's website.

A. Becker welcomed the members of the public to the call.

#### 2. Review and Certification of the February 17, 2022 Conference Call Minutes-

A motion to approve the draft minutes from February 17, 2022 as written was made by G. Craig, seconded by D. Lyman, and approved by R. Dalton. A. Becker, G. Poppe, and E. Hoffmann abstained as they did not attend the meeting so the minutes were approved by acclamation.

### 3. Licensing-

#### *Review of License Applicant*

A. Becker asked if there was any discussion needed for the six license applicants (listed below). He added that there were two Pump Installer applications and four Environmental Resource and Geotechnical (ERG) well driller applications. No further discussion was needed.

License Type	Applicant Name	Employer
Pump Installer	Joshua DeRidder	Robbins Water Service Inc
Pump Installer	Jason Callahan	Callahan Well Drilling
ERG	Daniel Halecki	Summit Drilling
ERG	David Macaluso	SGS North America Inc.
ERG	John Maciejewski	Summit Drilling
ERG	Andrew Glose	Sovereign Consulting Inc.

**A motion to approve all listed individuals for licensure was made by G. Poppe. This motion was seconded by E. Hoffmann and approved unanimously.**

### 4. Continuing Education-

#### *Maryland Delaware Water Well Association (MDWWA)*

A. Becker introduced MDWWA's 2022 Annual Convention, which was held in February. A. Becker asked if any discussion was needed for this course, which the Department had previously provided the Board with information to review. R. Dalton said that the information provided was confusing and said that courses which were about Maryland should not be counted for credit as they are not relevant to New Jersey. G. Craig agreed that courses related specifically to Maryland rules should not count for New Jersey well drillers or pump installers. A. Becker suggested voting on the courses individually. M. Ortega noted that the Board does not need to vote on the First Aid course, the OSHA HAZWOPER Refresher course, or the Apprentice course. A. Becker reminded the Board to specify how many continuing education points (CEP) and the point category when making their motions.

The Board discussed courses individually and made motions after each course:

**A motion to not recommend the Legislative Update course was made by G. Craig. This motion was seconded by R. Dalton and approved unanimously.**

**A motion to not recommend What to Expect Before Your Inspection was made by G. Craig. This motion was seconded by D. Lyman and approved unanimously.**

**A motion to accept the Legislative and Legal Update Effecting the Water Well Industry for one technical CEP was made by G. Craig. This motion was seconded by G. Poppe and approved unanimously.**

**A motion to accept The Well from Hell for one technical CEP was made by G. Poppe. This motion was seconded by G. Craig and approved unanimously.**

**A motion to accept Hiring and Leading the 21<sup>st</sup> Century Driller for one technical CEP was made by G. Craig. This motion was seconded by G. Poppe and approved unanimously.**

**A motion to accept Reverse Osmosis Best Practices for one technical CEP was made by D. Lyman. This motion was seconded by G. Craig and approved unanimously.**

**A motion to accept Ph Adjustment: When, How, and Why for one technical CEP was made by R. Dalton. This motion was seconded by G. Craig and approved unanimously.**

**A motion to accept Solar Pumping – Size, Selection, and Other Considerations for one technical CEP was made by G. Poppe. This motion was seconded by D. Lyman and approved unanimously.**

**A motion to accept Power Systems at Peak Efficiency with Permanent Magnet Technology for one technical CEP was made by E. Hoffmann. This motion was seconded by R. Dalton and approved unanimously.**

**A motion to accept Drill Rig Maintenance for one technical CEP was made by G. Craig. This motion was seconded by G. Poppe and approved unanimously.**

The Board agreed that there was not enough information regarding Applying Tribal Knowledge to Engineered Expectations to make a determination on the course.

**A motion to have the Department request that MDWWA send more information for the Applying Tribal Knowledge to Engineered Expectations course was made by D. Lyman. This motion was seconded by G. Craig and approved unanimously.**

**A motion to accept the DOT Update course for one safety CEP was made by G. Craig. This motion was seconded by G. Poppe and approved unanimously.**

A. Becker brought up how the Water and Graphite course was only listed as being 45 minutes of material. S. Reya reminded the Board that they previously made a motion which said that if a course is 45 minutes or more, they would round up to the nearest CEP.

**A motion to accept Water and Graphite: A Geothermal Game Changer for one technical CEP was made by G. Poppe. This motion was seconded by G. Craig and approved unanimously.**

#### *CEP Status Update*

A. Becker asked M. Ortega to provide a status update for CEP completion for well drillers and pump installers. M. Ortega informed the Board that as of March 7<sup>th</sup>, 428 licensees had at least one CEP. Of the 54 percent of licensees who had at least one CEP, 58 licensees had completed the CEP requirement for this cycle.

M. Ortega discussed some upcoming courses which the Department anticipated would be well-attended. He noted that Parkhurst will be hosting two courses, which would earn licensees seven and a half CEPs. M. Ortega said that Duff Co and Drill Tech Group will also be hosting larger courses in May.

E. Hoffmann asked about the mechanics of how the Department tracks and enters CEPs for well drillers and pump installers. M. Ortega explained that most course providers submit the course rosters to the Department within 45 days of administering the course and then the Department enters the license numbers into a database. Once the license numbers are entered into the Department's database, licensees can track their points on the DEP DataMiner. M. Ortega added that Well Permitting established an email address for licensing and continuing education-related submittals. This allows licensees to submit their certificates directly to Well Permitting when a course provider

does not submit the attendance roster directly to the Department. M. Ortega said that there are notes on the Course List which detail submittal requirements when the course provider is not responsible for submitting the information to the Department. He told the Board that he's been working on an update to the course list, which provides additional, more detailed, instructions for licensees to submit completion certificates for credit. E. Hoffman thanked M. Ortega for the explanation and said that the Department is very generous with how they handle the process.

#### *Additional Comments*

G. Poppe said that he attended NJGWA's March membership meeting a few days prior and wanted to relay some of the comments that he received from their membership. He added that there were a lot of people that approached him to voice their displeasure with the Board's decision to approve the last meeting and course for one and a half CEPs instead of two. Attendees of the course regularly spend at least four hours at the meetings.

A. Becker asked if there were any comments from the industry. Mr. Eichfeld said that he had attended the meeting and found it to be very informative and felt that it should have been worthy of receiving two CEPs. Mr. McGuire, who is on NJGWA's Board of Directors, said that most of the displeasure stems from the inconsistency. He added that these meetings have always been approved for two CEPs and NJGWA has taken the Board's suggestions to make the meetings more stringent and informative. A. Becker thanked Mr. Eichfeld and Mr. McGuire for their comments.

### **5. Total Green-**

S. Reya confirmed that Mr. Bill Buschur, from Total Green Manufacturing (Total Green), was on the call. The Board welcomed Mr. Buschur and thanked him for joining. S. Reya reminded the Board that they had received acceptable lab permeability results for the Tenon Thermaseal HF 1.1 thermal conductivity grout mix. Total Green had also successfully demonstrated that the grout could be pumped in the field on October 25, 2021. The final permeability results from the field demo also fell below the maximum allowable permeability. S. Reya noted that the results were about two orders of magnitude below what is required by the Department and clearly met the requirements and referenced a January 27, 2022 memo that R. Dalton supplied (and was forwarded to Board members), which further detailed the permeability test results on the field samples and meets the grout permeability requirements prescribed in the rule.

S. Reya discussed the construction of the Direct Exchange (DX) geothermal well system, which was also subject to approval by the Board. He stated that Total Green successfully demonstrated that they were able to grout the annular spaces between the borehole and the PVC and the PVC and the copper loop at a test installation in Burlington County. He reminded the Board that the PVC outer casing was required to address their concerns with the copper piping and the potential adverse impacts that the acidic groundwater in the Coastal Plain would have on the copper pipe. S. Reya clarified that the Board will be voting on this specific type of construction and not all DX installations. The detailed specifications of the copper U-bend, PVC outer casing, grout material and refrigerant have been provided throughout multiple document submittals from Total Green, dating back to their initial request for product approval in a letter dated August 19, 2019.

Mr. Buschur briefly discussed other products available through Total Green, including coated copper tubing to eliminate the need for the PVC outer casing. He asked if the Board would need to review this product for it to be acceptable for use in New Jersey. S. Reya said that the only product that is being considered for approval currently is the copper tubing grouted in a PVC sleeve. Any additional products or designs would need to go through this process. Mr. Buschur noted that the most important thing for them was to get the grout approved. A. Becker clarified that the technology would be subject

to approval for all distributors, not just Total Green. Mr. Buschur confirmed that Total Green is not the only distributor of this product, and anyone could use this method, if approved.

D. Lyman asked about the refrigerant used by Total Green and if it was previously approved before he joined the Board. Mr. Buschur stated that this information was submitted with the original packet of information in 2019 when the process started. S. Reya added that Total Green provided the Safety Data Sheets for all of their products, which the Board reviewed. It was determined that since the copper tubing would be encapsulated with the PVC casing, it would be less of a concern if there was a problem with the copper tubing.

A. Becker noted that Total Green has met all the criteria and asked for a motion to approve the product.

**A motion to recommend approval of the referenced DX geothermal system, the grout material and the installation method was made by G. Poppe. This motion was seconded by G. Craig and approved unanimously.**

R. Dalton added that the permeability of the grout quite low and is similar to neat cement when mixed with an appropriate amount of water. S. Reya noted that the Department will send a letter to Total Green that will stipulate the Department's approval of this system design for state-wide use. The letter will note that any alterations to the supplied design would need to be submitted for review by the Department, in consultation with the Board.

#### **6. Horizontal Directional Drilling (HDD)-**

J. Mattle talked about the Science Advisory Board's (SAB) review of the aspects of HDD. S. Reya had provided the Board with the SAB's final report on HDD prior to the meeting in order for them to review their findings. J. Mattle added that after the report was finalized, Well Permitting staff had met with the Commissioner about regulating HDD in New Jersey. The Commissioner was agreeable to regulating HDD and requested that staff start investigating a path forward. J. Mattle said that Well Permitting staff have already put together a proposal for how to handle the regulation of HDD in New Jersey and are investigating potential stakeholders.

T. Pilawski talked about the potential regulation of HDD in the future, noting that grouting of conventional wells/borings already falls within N.J.A.C. 7:9D. She said that the SAB and Department management had concerns regarding inadvertent returns (IRs). J. Mattle said that Mark Miller of Water Allocation, M. Ortega, and S. Vargo would be on the rule writing team for this project. Department staff will also be investigating potential changes to licensing and appointing a new Board member.

A. Becker said that the SAB's report was very thorough. He brought up how the SAB said that it is advisable to grout the annular space with a low-permeability grout for the first 50 to 100 linear feet from both the entry and exit holes. He said that he was surprised at the number of IRs that occur during HDD operations.

#### **7. Disinfection of Private Wells by an Unlicensed Individual-**

J. Denyes said that she relayed the Board's displeasure of the delay in providing written guidance on this issue to her management. She said that her team has agreed to let the Department reach out to the individual to advise them of the correct procedures. She added that with no consumer complaint or photographic evidence, it is very hard to proceed with the Board's request.

J. Denyes said that N.J.A.C. 7:9D is ambiguous on the topic of disinfection. While the Board has expressed to her and the Department that one needs a license to conduct this work, she does not believe that the rule is supportive of their interpretation. N.J.A.C. 7:9D-1.6 does not list “disinfect” under the list of items that only can be performed by a well driller or pump installer. While N.J.A.C. 7:9D-1.7 says that a well driller is authorized to perform disinfection, the rule does not state that only licensed individuals may perform this work. The Board also agreed that homeowners should be able to disinfect their own wells in emergency situations, which would be contradictory to stating that a licensee must perform the work.

J. Denyes thanked the Board for their patience and asked if they had any questions. A. Becker asked if the Department could specify in the letter to this individual that a license is required in the future to disinfect wells. J. Denyes said that the Department cannot do that, but they can say that a license is recommended. S. Reya said that he has already drafted the letter for internal circulation. He said that the letter references the Safe Drinking Water Act Rule regarding disinfection procedures that must be followed. D. Lyman asked if the letter could clarify what work can be done by licensed well drillers and pump installers. S. Reya said that he also addressed this in the letter.

#### **8. Enforcement Update-**

S. Vargo informed the Board that 14 Notices of Non-Compliance (NONC) were sent out for perceived violations in late-February. The NONCs were sent out to six different well drillers to address 20 potential construction violations. He noted that the NONCs selected, which were part of Well Permitting’s first batch to go out since Julia Altieri retired, were high priority and were meant to address health or environmental concerns. Currently, Well Permitting is awaiting written responses from the recipients of these NONCs. A. Becker and the rest of the Board thanked S. Vargo for the update.

#### **9. Geothermal Update-**

##### *Woodbury*

S. Reya explained to the Board that as of the last update that he provided, all known improperly installed geothermal wells had been addressed. The property owner had recently taken steps to move a compactor and generator, which had been covering some wells, according to the best available information provided to the Department. After excavating down to 15 feet below grade, no wells were found in this location. S. Reya was happy to report that all geothermal wells were successfully recommissioned. He noted that Summit Drilling has completed doing their work and another company will seal the abandoned irrigation well on the property at which point the project will be complete.

##### *Princeton*

S. Reya briefly talked about Phase 1 of the Princeton geothermal well field. He noted that those wells had target depths of 850 feet below grade. He said that the wells in Phase 2, which is located in West Windsor, have target depths of 600 feet below grade.

As of March 11, 2022, 44 wells had been completed. It was reported to the Department that two of these wells had intersected with each other and had been damaged, which was a problem that was encountered frequently during Phase 1. S. Reya added that there have been no major issues with this phase. Currently, there are three rigs on site and this phase will consist of 190 wells.

#### **10. New Items/Comments from the Public-**

G. Poppe asked if Mr. Stover was still on the call to address a concern which he brought to G. Poppe's attention during the March NJGWA meeting. G. Poppe explained that Mr. Stover was working with a property owner whose property was potentially too close to a water service line hook up for a private well to be installed. He said that the property owner received a quote of \$49,000 to be hooked up to city water. A. Becker said that he wasn't sure if this was something that Well Permitting directly handles and asked Mr. Stover to speak to the Department regarding his concerns. Mr. Stover said that he has already been working with the Department to resolve this issue.

J. Mattle said that the provision in question is in the New Jersey Safe Drinking Water Act Rule (N.J.A.C. 7:10). The rule states that if an adequate public community water system is available and that water system's water lines are within 200 feet of the property line the owner would be required to hook up to that water system and cannot drill a private well for potable use. He noted that in 1978, the rule was amended to include this provision. J. Mattle followed up by saying that the Department does their best to be consistent when evaluating well permit applications subject to this provision.

Mr. Stover asked who confirms the 200-foot distance. T. Pilawski explained that the Department has access to maps which detail the locations of water lines. Those maps are used in the decision-making process. She noted that Well Permitting staff already visited the site in question and that all indications are that the water line is within 200 ft. of the property line. It was noted that Mr. Stover and his potential client may contact the Department directly regarding this matter. This issue does not warrant any action from the Board.

#### **11. Adjournment-**

A. Becker thanked everyone for attending. M. Ortega said that the next scheduled meeting will be held on Thursday, April 21, 2022. A. Becker asked when the Board could resume in-person meetings. S. Reya explained that a lot of the building restrictions have been lifted, including the mask requirement. However, Well Permitting staff is unsure as to how many people can be accommodated in conference rooms at this time. S. Reya said that he'll keep the Board updated as to when in-person meetings will resume.

**At 11:00 am, a motion to adjourn the meeting was made by G. Poppe, seconded by E. Hoffmann, and approved unanimously.**





## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

PHILIP D. MURPHY  
*Governor*

SHAWN M. LATOURETTE  
*Commissioner*

SHEILA Y. OLIVER  
*Lt. Governor*

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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for April 21, 2022

*Approved by the Board on May 19, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Present:** Art Becker (Chairman), Joe Yost, Dave Lyman, Gordon Craig, Richard Dalton, and Eric Hoffmann

**Board Members Absent:** Gary Poppe, Jeff Hoffman, and Steve Domber

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** Dermot Dillon; Summit Drilling/New Jersey Ground Water Association (NJGWA), Denis Crayon; Summit Drilling, Brian McGuire; SGS North America Inc. (SGS)/NJGWA, Wesley Eichfeld; SGS

#### 1. Call to Order-

The meeting was called to order at 9:33 am with a quorum present. This in-person meeting was held via conference call and Microsoft Teams. Notice of the meeting and instructions on how to participate by phone or video were listed on the Department's website.

A. Becker welcomed the members of the public to the call.

#### 2. Review and Certification of the March 17, 2022 Conference Call Minutes-

S. Reya informed the Board that R. Dalton had reached out to the Department to change "Conference Call Minutes" to "Meeting Minutes" in the header of the document. The Board members agreed with this change.

**A motion to approve the draft minutes from March 17, 2022 with the correction to the header was made by G. Craig, seconded by D. Lyman, and approved unanimously.**

### 3. Licensing-

#### *Review of License Applicants*

A. Becker went over the list of license applicants, which the Department provided to the Board in advance of the meeting. He stated that there were six applicants: two Pump Installers, two Environmental Resource & Geotechnical (ERG) Well Drillers, one Journeyman (Class B) Well Driller, and one Journeyman Well Driller. No further discussion was needed for this topic.

License Type	Applicant Name	Employer
Pump Installer	Michael T. Bowers	Abrams Water Service, LLC
Pump Installer	Adam Urbanowicz	A&C Sprinkler LLC
ERG	Ian H. Connor	Innovative Environmental Technologies Inc.
ERG	Daniel Petley	SGS
Journeyman (Class B)	Joseph A. Barth	Stovers Wells & Pumps
Journeyman	Michael Shepherd	Uni-Tech Drilling Co., Inc.

**A motion to approve the six applicants for licensure was made by D. Lyman. This motion was seconded by J. Yost and approved unanimously.**

### 4. Continuing Education-

#### *Maryland Delaware Water Well Association (MDWWA) Follow Up*

S. Reya reminded the Board that during the March meeting, they made a motion which requested that the Department ask MDWWA for additional information regarding Mr. Brock Yordy's course, Applying Tribal Knowledge to Engineered Expectations. MDWWA had provided the requested follow-up information shortly after the March meeting and the information was provided to the Board for review. A. Becker said that he has attended a few of Mr. Yordy's courses in the past and said that he is a very good speaker.

**A motion to approve Applying Tribal Knowledge to Engineered Expectations for one technical continuing education point (CEP) was made by D. Lyman. This motion was seconded by G. Craig and approved unanimously.**

#### *International School of Well Drilling (ISWD)*

S. Reya introduced ISWD's course, Injection Wells, to the Board. He stated that the format of this course is the same as all of the other approved courses by ISWD. No further discussion was needed.

**A motion to approve Injection Wells for one technical CEP was made by G. Craig, seconded by R. Dalton, and approved unanimously.**

#### *In-Person Courses*

S. Reya said that the next four courses up for review have already been approved by the Board in the past, but in a slightly different format. He added that these four courses were administered during different NJGWA meetings, but since they are being offered as standalone courses, separate approval numbers are needed.

A. Becker suggested voting as a block for these four courses. He asked if any discussion was needed for any of these courses. R. Dalton said that the Troubleshooting with Meters course did not have enough information for him to properly review. D. Lyman and A. Becker said that Mr. Hartmann's courses are excellent. E. Hoffmann asked if there was a precedent in place regarding automatic

approval of previously approved courses, but there was not one in place to anyone's knowledge. R. Dalton and E. Hoffmann asked for a detailed agenda.

**A motion to request additional information for Troubleshooting with Meters was made by R. Dalton. This motion was seconded by E. Hoffmann. No vote was held for this motion.**

The Board asked Mr. Dermot Dillon when this course was going to be held in order to see if it could be reviewed in time for the next meeting. Mr. Dillon stated that this course would be held on Thursday, May 19<sup>th</sup>, which is the day of the next Board meeting. R. Dalton revised his previous motion.

**R. Dalton made a revised motion to accept Troubleshooting with Meters on the condition that the course provider submits a more detailed agenda to the Department prior to the membership meeting on May 17<sup>th</sup> so that it can be provided to the Board. This motion was seconded by E. Hoffmann and approved unanimously.**

A. Becker thanked R. Dalton for revising his original motion.

S. Reya introduced the next course, Update on New Jersey Trade Licensing and Public Works Contractor Registration, which would be presented by Mr. Robert Incollingo, Esq. S. Reya added that this course, originally titled Unlicensed Work, Should You Pay – Do You Have To?, was changed after J. Hoffman and A. Becker emailed the Department asking for additional information regarding the course. Department staff, therefore, requested additional information from NJGWA, and Mr. Dillon provided the updated course information to the Department.

A. Becker asked if there was any discussion needed for Mr. Incollingo's course, Update on New Jersey Trade Licensing and Public Works Contractor Registration. R. Dalton expressed his concerns with the course, stating that he thought it was more relevant for consumers instead of well drillers and pump installers. D. Lyman asked R. Dalton and the Board to think outside of the box regarding submitted courses. He continued by stating that the technology in the well drilling industry does not change very often and that the business aspect of the industry is a very important topic. G. Craig noted that it's important for well drillers to learn about the NJ Department of Labor Public Works Contractor Registration because it is difficult to navigate. J. Yost added that this course would be very beneficial to those licensees who specialize in installing public community supply wells.

R. Dalton said that he believes that 80 percent of this course does not apply to well drilling, whether it be business or technical. E. Hoffmann said that he thought that half of the course may not be applicable.

A. Becker asked if anyone would be present either for this course on May 19<sup>th</sup> or during the May 2022 Membership Meeting, which will be held on May 24<sup>th</sup>. A. Becker noted that he will be away and will be unable to attend. None of the present Board members indicated whether they would be able to attend or not, but Mr. Dillon noted that G. Poppe usually attends the meetings if he is available. Mr. Denis Crayon said that there is a standing invite to all Board members to attending the NJGWA meetings to observe who they are conducted.

**A motion to approve the Update on New Jersey Trade Licensing and Public Works Contractor Registration course for one technical CEP was made by J. Yost. This motion was seconded by G. Craig and approved by all except for R. Dalton, who voted against the motion.**

A. Becker brought up the next course, which was for the NJGWA May 2022 Membership Meeting w/ Update on New Jersey Trade Licensing and Public Works Contractor Registration course. NJGWA requested two CEPs for this course, one for the meeting and one for the course which was previously approved.

R. Dalton said that the meeting should only count for half of a point, instead of a full point. D. Lyman said that he thought that the meeting was being undervalued. R. Dalton reminded the Board that most licensing boards do not give credit for attending association meetings. He said that he only applies to have Board meetings count for credit toward his Professional Geologist license when there is technical information that is discussed, such as during a presentation. E. Hoffmann agreed with R. Dalton.

D. Lyman asked E. Hoffmann about his Licensed Site Remediation Professional (LSRP) license. Specifically, he wanted to know if association meetings count for credit towards his LSRP license. E. Hoffmann said that LSRPs do not receive credit for the social events but do receive credit for technical presentations. He added that other licensing boards are more liberal.

J. Yost said that it is already a challenge for licensees to take time off to earn credit for their license. He said that everyone who attends is present for a minimum of three hours and should be awarded one full point for the meeting portion. A. Becker said that he holds 11 different licenses and all but two require continuing education as part of the renewal process. He briefly spoke about the value of the meetings to the industry. E. Hoffmann asked A. Becker how other states handle association meetings. A. Becker said that other states accept association meetings, noting that some states even accept Board meetings for credit.

R. Dalton said that NJGWA should be treated like everyone else and not be granted an automatic approval. G. Craig clarified that the amount of time is not the issue, however, the quantity of content during each meeting is the issue.

**A motion to accept the NJGWA May 2022 Membership Meeting w/ Update on New Jersey Trade Licensing and Public Works Contractor Registration course for two technical CEPs was made by J. Yost. This motion was seconded by G. Craig and approved by all except for R. Dalton who voted against.**

A. Becker requested that the agenda for the May 19<sup>th</sup> Board meeting include a discussion regarding the continuing education course application form. He noted that revising the application to clarify the and formalize exactly what is to be provided as far as a course curriculum, syllabus and/or detailed description may alleviate some of the back and forth between course providers and the Department/Board and ensure consistent submittals.

S. Reya asked the Board to circle back to some of the courses which they skipped during the Troubleshooting with Meters discussion. S. Reya said that the Board did not make a motion on Surviving a DOT Roadside Inspection, PFAS 101, and Material Handling Safety. A. Becker asked if any discussion was needed for these three courses. No further discussion was needed, and the Board voted on these courses as a block.

**A motion to approve Surviving a DOT Roadside Inspection, PFAS 101, and Material Handling Safety each for one technical CEP was made by D. Lyman. This motion was seconded by E. Hoffmann and approved unanimously.**

#### *Waiver Request*

S. Reya said that a licensee recently applied for a waiver from the continuing education requirements for this cycle due to a medical condition. The letter from the licensee was provided to the Board prior to the meeting for them to review. S. Reya added that this licensee was involved in a serious car accident and as a result, has a medical condition which is preventing them from earning additional CEPs. This licensee has already earned nine CEPs for this cycle.

S. Reya said that this is the first true waiver request that the Board has received as it was submitted far in advance of the deadline by a licensee who was obtaining points throughout the cycle, however, he will no longer be able to do so for the remainder of the cycle due to the issues detailed in his letter. He added that the Board received a few letters after the end of the last cycle from individuals who earned points late or did not meet the requirements. It was clarified with Board members that this waiver request would be for this cycle and would not be a permanent waiver from the requirements. J. Yost expressed that the Board should accept this as the individual is being responsible in providing a rationale as to why he cannot obtain the required CEPs and demonstrating that he values his license and is doing all he can to make sure it remains active.

A. Becker asked for DAG J. Denyes to weigh in on this topic. He asked her if the Board is allowed to grant conditional waivers. J. Denyes said that the rule is vague and does not talk about the length of time a waiver is good for, if one is granted; this is up to the Board and the Department. A. Becker asked what the rule says about waivers. J. Denyes said that N.J.A.C. 7:9D-1.9(f) states that a licensee in good standing may submit a waiver from continuing education requirements on the basis of active duty in the military or reserves, illness, disability, or other good cause.

J. Denyes said that the Board could go into executive session if they wished to further discuss this topic in further detailed. The Board did not deem it necessary to go into executive session. J. Denyes said that if the Board makes a motion to approve this waiver to make sure they approve it for this cycle only.

**A motion to accept the waiver request submitted by the licensee for the current continuing education cycle was made by R. Dalton. This motion was seconded by D. Lyman and approved unanimously.**

The Department will notify the licensee in writing that his request for a waiver from the remaining CEPs for the current cycle is approved.

#### **5. New Items-**

S. Reya informed the Board that 22 letters had been emailed to A. Becker's attention from NJGWA members. These letters had requested that the Board consider changing the number of points granted to the NJGWA March 2022 Membership meeting from 1.5 Technical CEPs to 2 Technical CEPs. R. Dalton said that he would not change his vote or vote on a long-term blanket approval to permanently grant one full CEP for the meeting.

#### **6. Adjournment-**

A. Becker thanked everyone for attending. The next scheduled meeting is on Thursday, May 19, 2022.

**At 10:44 am, a motion to adjourn the meeting was made by G. Craig, seconded by D. Lyman, and approved unanimously.**



## State of New Jersey

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### **New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for May 19, 2022**

*Approved by the Board on June 16, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone:** Art Becker (Chairman), Gary Poppe (Vice-Chairman), Dave Lyman, Gordon Craig, Jeff Hoffman, and Richard Dalton

**Board Members Absent:** Joe Yost, Eric Hoffmann, and Steve Domber

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** Brian McGuire; SGS North America Inc. (SGS)/New Jersey Ground Water Association (NJGWA), Wesley Eichfeld; SGS

#### **1. Call to Order-**

The meeting was called to order at 9:33 am with a quorum present via telephone. This meeting was held via conference call and Microsoft Teams video call due to the COVID-19 pandemic. Notice of the meeting and instructions on how to participate by phone or video were listed on the Department's website.

A. Becker welcomed the members of the public to the call.

#### **2. Review and Certification of the April 21, 2022 Conference Call Minutes-**

A motion to approve the draft minutes from April 21, 2022 as written was made by J. Hoffman, seconded by D. Lyman, and approved by all except for G. Poppe who was not present during the April meeting.

**3. Board Chair and Vice-Chair Elections-**

A. Becker indicated that he enjoys being the Chairman of the Board and would like to stay if everyone would have him. He said that he welcomes the opportunity if someone else wanted the position. G. Poppe nominated A. Becker to remain as Chairman of the Board.

**A motion to nominate A. Becker as the Chairman of the Board was made by G. Poppe, seconded by D. Lyman, and approved by all except for A. Becker who abstained.**

A. Becker stated that G. Poppe is the current Vice-Chairman of the Board and asked if anyone would volunteer for this spot. D. Lyman nominated G. Poppe to remain as the Vice-Chairman of the Board.

**A motion to nominate G. Poppe as the Vice-Chairman of the Board was made by D. Lyman, seconded by R. Dalton, and approved unanimously.**

**4. Continuing Education-**

*Franklin Electric – Troubleshooting with Meters Course Follow Up*

S. Reya brought up the Troubleshooting with Meters course, which was discussed during the April meeting and was conditionally approved by the Board. The conditional approval was based upon the course provider submitting a more detailed course outline. The course provider submitted this information to the Department shortly after the April meeting and the Department provided this information to the Board via email. R. Dalton said that the additional information is acceptable.

**A motion to accept Troubleshooting with Meters for one technical continuing education point (CEP) was made by R. Dalton, seconded by D. Lyman, and approved unanimously.**

*National Ground Water Association (NGWA)*

S. Reya said that the 12 NGWA courses were already approved as part of Groundwater Week 2021. The format of these courses is different, which is why NGWA submitted a course application for the review of these courses. R. Dalton commented on the quality of the NGWA applications, saying that they need improvement as they do not contain sufficient detail about the course content. A. Becker asked S. Reya about the course application and it was decided that the Board would discuss the potential application revisions that were brought up during the last meeting after the new course submittals have been reviewed. A. Becker asked if there was any further discussion needed. No additional discussion was needed; the Board voted on the 12 courses as a block. Assigned point totals can be found in the table below.

**A motion to approve the 12 NGWA courses was made by R. Dalton, seconded by D. Lyman, and approved unanimously.**

Course Name	CEPs
PFAS: Educating the Contractor to Provide Superior Service	1 Technical
Improving Pumping Performance of Variable Frequency Drives	1 Technical
Pressure Hazards	1 Safety
Using a Different Perspective to Lessen the Impact of our Industry's CDL Driver Shortage	1 Technical
Optimizing Well Rehabilitation Operations	1 Technical
Troubleshooting Problems with a Vertical Turbine Pump	1 Technical
Well Design for More Than One Stakeholder	1 Technical

Fall Prevention and Fall Protection: Understanding the Difference	1 Safety
Water Well Development and Rehabilitation	1 Technical
Heavy Equipment Ownership: Annual Costs and Predictive Maintenance	1 Safety
Plastic Piping Materials for Ground Source Geothermal Systems	1 Technical
VFDs - "The Magic Pill Myth" - Misapplication of VFDs	1 Technical

*Experience Safety Institute*

S. Reya said that Mr. Denis Crayon submitted for an online version of his Material Handling Safety course, which has already been approved twice previously. A. Becker asked if any further discussion was needed. No further discussion was needed for this course.

**A motion to approve the online version of Material Handling Safety was made by G. Craig, seconded by G. Poppe, and approved unanimously.**

*National Drilling Association (NDA)*

S. Reya said that NDA is applying for credit for the Mid Atlantic Spring Training, which already occurred in early May. He added that it is likely that some New Jersey licensees attended this training. He noted that NDA is requesting five CEPs for this course.

R. Dalton noted that some of these courses will count for technical points, and a few would count for safety. A. Becker suggested going through the event agenda to decide if the courses were appropriate and to assign points to the ones that were.

The Board started with the Fire Extinguishers and Their Proper Use course. A. Becker noted that this course would be relevant for safety credits. He added that the course only lasts for 45 minutes and asked S. Reya how those classes should be handled. S. Reya reminded the Board that they passed a motion that points could only be awarded in half point increments. He also noted that anything 45 minutes or over would be rounded up to the nearest hour, consistent with another Board motion. J. Hoffman pointed out that there is another 45-minute safety course at the end of the agenda. He suggested combining both of those and awarding one and a half safety credits for the seminar.

**A motion to accept the Fire Extinguishers and Their Proper Use course for safety credits was made by J. Hoffman, seconded by G. Craig, and approved unanimously.**

A. Becker said that the next course on the agenda is Casing Advancers. This 90-minute course consists of 30 minutes of classroom instruction and 60 minutes of a field demonstration. A. Becker said that the course looks acceptable and should count for technical points.

**A motion to approve Casing Advancers for technical credits was made by R. Dalton, seconded by D. Lyman, and approved unanimously.**

A. Becker said that the next course on the agenda is Social Media and the Work Place. M. Ortega noted that the Board has historically denied requests for social media-related courses.

**A motion to not approve Social Media and the Work Place was made by D. Lyman, seconded by G. Poppe, and approved unanimously.**

A. Becker noted that the next course is called Update on the Geotechnical Apprenticeship License. He said that this would only apply to Maryland licensees. R. Dalton stated that the course was only 15 minutes in duration and should not be considered by the Board.



**A motion to not approve Update on the Geotechnical Apprenticeship License was made by G. Craig, seconded by G. Poppe, and approved unanimously.**

A. Becker said that the next course on the agenda is the Cone Penetration Test (CPT) Training course. He said he believes that this course is relevant. He noted that the course was 45 minutes long.

**A motion to approve CPT Training for technical credits was made by G. Craig, seconded by J. Hoffman, and approved unanimously.**

The next course is for a series of outdoor presentations. The course names are Drilling 101, Decontamination and the Effects of Cross Contamination, and Proper use of Shelby Tubes and Piston Sampler, Preparation, Execution, Waving and Transportation. The Board said that these courses all appear relevant to the industry and voted on them as a block. The duration of these courses was 105 minutes.

**A motion to approve the three outdoor presentations was made by R. Dalton, seconded by G. Craig, and approved unanimously.**

A. Becker said the final course is for the Round Table Safety Discussion, which is the course that J. Hoffman had mentioned earlier. This discussion would be 45 minutes in duration.

**A motion to approve the Round Table Safety Discussion was made by G. Craig, seconded by R. Dalton, and approved unanimously.**

S. Reya asked if M. Ortega was able to tally up the points for the seminar. M. Ortega said that the seminar is approved for four technical CEPs and one and a half safety CEPs.

#### *Mobile Crane Certification*

S. Reya described the course application to the Board. This application, submitted by Mr. David Stothoff for a certification that he already obtained, was originally submitted earlier in the year. M. Ortega had sent it back previously requesting some additional information in an attempt to gather more information for what was discussed on each day of training. S. Reya said that the course is likely relevant to the industry due to the need to often operate a boom truck, however, there was not a lot of information provided by the applicant regarding documentation of what is covered throughout the entire duration of the course so it may be difficult for the Board to determine the appropriate number of CEPs to award. R. Dalton said that he thinks the course is somewhat related to the industry and recommended awarding five technical CEPs.

A. Becker said that he did some research on the course and thought that this should count as a safety course. He did not think that there was a technical component to this course. He added that since this was a 20-hour course, the full amount of allowable safety points should be awarded.

D. Lyman said that he sent one of his employees to this training and was able to provide some insight for the course. He said that there is one day of classroom training and one day of hands-on training where attendees practice maneuvering cranes on an obstacle course. D. Lyman added that the first day of training is eight hours of safety training. On the second day of training, the instructor was not present during the hands-on training. The instructor was present again during the test on the third and final day. D. Lyman recommended that this course be awarded eight safety CEPs. A. Becker thanked D. Lyman for the insight that he was able to provide.

**A motion to accept the Mobile Crane Certification for eight safety CEPs was made by G. Craig, seconded by D. Lyman, and approved unanimously.**

*Duff Co.*

S. Reya apologized for the multiple revisions to the course application that were provided to the Board in several emails prior to the meeting. He explained since the course provider submitted the application before the deadline, him and M. Ortega tried to work with them to make things work out prior to the event occurring. He added that Duff Co. was keeping two courses from their original approved application and was adding four new courses. S. Reya explained that the seminar is being held on May 25, 2022, which is next week.

R. Dalton said that there were instructor bios missing from the application and asked to make sure that they are attached next time. A. Becker agreed and suggested that the Department tell course providers that they must wait until the next meeting if they submit documentation too close to the meeting. A. Becker suggested adding a note to the course application which denotes a deadline.

**A motion to approve the package of new courses presented by Duff Co. was made by G. Poppe, seconded by D. Lyman, and approved unanimously.**

*Continuing Education Course Provider Application Revision Discussion*

S. Reya shared his computer screen with everyone able to view it via Microsoft Teams to show the Board the current Course Provider Application. S. Reya added that most of the problems arise from the first two items in the application. The first item on the application asks for a detailed description of the course content and the second item asks for an agenda of the course, including the duration of each course topic. He explained that he believes that one of the biggest disconnects between the Board and the Department is when one-hour courses are presented to the Board. The Department accepts that the course subject is going to be discussed for that hour. This later causes problems when a course is approved for an hour during a seminar and then the Board later has to review it again as a solo course. The Board often questions where the agenda is after the course has already been approved in these circumstances.

S. Reya said that the current application contains language straight from the rule. He said that M. Ortega recommended changing the format of the application and tweaking a few of the questions to try to get better information for the Board. S. Reya discussed a few of the ideas that they had with the Board. M. Ortega and S. Reya will provide the Board with a revised course application for their review by the July meeting.

#### **5. Well Driller and Pump Installer License Application Revision Discussion-**

S. Reya discussed the Department's intention to revise the Well Driller and Pump Installer License Application. Currently, there is one application for well drillers and pump installers. S. Reya explained that in the past, each license type had a separate license application. He noted that the current application is often confusing for pump installers because a lot of the information does not apply to them. S. Reya proposed splitting single application in two: one for all well drillers and one for pump installers.

S. Reya stated that the license applications provide a clear-cut set of criteria for well driller license applicants; they must submit evidence of five wells they worked on to the Department, which is also specified in the rule as minimum experience that must be obtained for licensure. S. Reya explained that since there are no permits needed for pump work, there is rarely a paper trail. S. Reya point out that the Department could require W2s or invoices to confirm that a pump installer application

worked for the company or that they worked on specific pumps. He brought up how the soil borer applications historically required submittal of boring logs/invoices for any borings for which well permits were not required to document experience obtained without DEP permits as best as possible. S. Reya also asked for input from Board members how many documents the Department should ask for, noting that well drillers must provide five records or decommissioning reports with their application. S. Reya asked for the Board's feedback. D. Lyman said that it sounds like a good idea and that it would be easy for companies to provide invoices for jobs they completed.

S. Reya said that he and M. Ortega will revise and send out new draft applications for the July meeting. J. Hoffman asked if there was an application fee. S. Reya said that there was no longer an application fee once the Department contracted with NGWA for testing. A. Becker suggested a revision to the draft applications which were provided to the Board. He asked if the link for the study materials could be the same on both applications. M. Ortega said that it would not be a problem and will make the update.

#### **6. Enforcement-**

S. Vargo provided the Board with the latest update on the Well Permitting Section's enforcement activities. He said that in February the Department sent out 14 Notices of Non-Compliance (NONCs) to seven different people. As of the day of the Board meeting, five of the seven people have submitted written responses. The Department has determined that most of these cases will result in the NONCs being rescinded, based on submitted follow up information provided to the Department. S. Vargo said that the Department also sent another batch of 13 NONCs to 12 people. As of the day of the Board meeting, no responses have been received.

A. Becker thanked S. Vargo for the update. He asked the Department if they have been doing much field work lately. S. Reya and S. Vargo said that not a lot of field work has been done lately due to staffing issues. The Well Permitting Section still does not have a replacement for Julia Altieri, who retired last summer. S. Reya said that Well Permitting is also preparing for Lynn Stout's retirement at the end of June.

#### **7. Board Correspondence/Ethics Training Reminder for Board Members-**

S. Reya said that the Department received an additional five letters which were addressed to the A. Becker and the Board from NJGWA members. These letters requested that the Board reconsider the amount of CEPs issued to the March 2022 Membership meeting. S. Reya said that the other 22 letters were presented to the Board during the April meeting. He added that he was just making note of it for the record that the letters were received and distributed to the Board.

S. Reya reminded the Board that they will need to take their mandatory Ethics training course soon. He said that there are two types of Ethics training: one is a short 10 minute refresher while the other is a 30 minute module. The Board is required to take the 30-minute module this year. S. Reya said that he will email the Board members the link to the Ethics training and a new Marijuana training which they are required to take.

#### **8. Program Updates-**

T. Pilawski said that interviews were conducted to fill an Agency Services Representative, which is a backfill for Amanda Blanda, who retired in late 2020. Well Permitting also put in for a backfill for Julia Altieri's position as well as one for Lynn Stout, who will be retiring on July 1, 2022. The Board wished Lynn well in her retirement and asked if the Department could make sure she is on for the

next call to thank her for her service. J. Mattle said that he will check her schedule and invite her. J. Mattle also noted that Well Permitting will try to do more field work, but it likely would not be until later in the summer, once vacant positions have started to be filled.

**9. New Items-**

A. Becker noted that he will not be able to attend the June meeting. G. Poppe said that he will be present for the June meeting, but he cannot make it for the July meeting.

**10. Adjournment-**

A. Becker thanked everyone for attending. The next scheduled meeting is on Thursday, June 16, 2022.

**At 10:42 am, a motion to adjourn the meeting was made by G. Poppe, seconded by J. Hoffman, and approved unanimously.**



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

PHILIP D. MURPHY  
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*Commissioner*

SHEILA Y. OLIVER  
*Lt. Governor*

DIVISION OF WATER SUPPLY AND GEOSCIENCE  
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### **New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for June 16, 2022**

*Approved by the Board on July 21, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone/Microsoft Teams:** Gary Poppe (Vice-Chairman), Joe Yost, Gordon Craig, Eric Hoffmann, Jeff Hoffman, and Richard Dalton

**Board Members Absent:** Art Becker, Dave Lyman, and Steve Domber

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Joe Mattle, Lynn Stout, Steve Reya, Michael Schumacher, and Mark Ortega

**Members of the Public:** Brian McGuire; SGS North America Inc. (SGS)/New Jersey Ground Water Association (NJGWA), Wesley Eichfeld; SGS

#### **1. Call to Order-**

The meeting was called to order at 9:33 am with a quorum present via Microsoft Teams and telephone. Notice of the meeting and instructions on how to participate by video or phone were listed on the Department's website.

#### **2. Review and Certification of the May 19, 2022 Meeting Minutes-**

A motion to approve the draft minutes from May 19, 2022 as written was made by J. Hoffman, seconded by G. Craig, and approved by all except for E. Hoffmann who abstained as he was not present for the May meeting.

### 3. Review and Certification of License Applications-

S. Reya said that there was one license applicant for the Environmental Resource and Geotechnical (ERG) well driller license. This applicant, listed below, passed all of the required certification exams and met all of the other requirements for the ERG license. No discussion was needed.

License Type	Applicant Name	Employer
ERG	Matthew Jelinski	Summit Drilling, LLC

**A motion to approve one license applicant for licensure was made by G. Craig. This motion was seconded by J. Yost and approved unanimously.**

### 4. Continuing Education-

M. Ortega informed the Board that 500 licensees have started to earn their continuing education points (CEPs). This equates to 62 percent of all licensed well drillers and pump installers. He added that of the 500 who have started earning CEPs, 104 have completed the requirements, which includes new licensees. M. Ortega noted that Duff Co. and Drill Tech recently submitted their course rosters for approved courses they have offered, but those numbers are not reflected in the numbers just reported. He anticipates that NJGWA will submit the course rosters for the series of make-up courses offered in May and for their May Membership Meeting. M. Ortega said that there are a lot of people that are one or two points away from completing the requirements and will likely meet the requirements after those rosters get submitted.

G. Poppe asked M. Ortega how long it usually takes for online course providers to submit completion certificates to the Department. M. Ortega said that it varies by provider. He added that the International School of Well Drilling submits reports to the Department every other month, while All Star Training submits information within a day or two. He also noted the National Ground Water Association currently does not submit completion certificates directly to the Department. There are instructions on the course list which inform licensees if they are responsible for submitting their course completion certificates directly to the Department.

M. Ortega discussed his concerns with the amount of upcoming in-person courses over the summer. He noted that the Department has not received any new course applications recently and that at the time of the meeting, no in-person courses are being offered until November. E. Hoffmann inquired if there was a need for additional courses. He offered to put something together about environmental wells if there was a need for additional courses. G. Poppe welcomed the suggestion and added that there will always be a need for courses. J. Yost agreed with G. Poppe.

G. Poppe expressed interest in having the New Jersey Geologic and Water Survey present information regarding aquifers in the Coastal Plain. He added that there have been a lot of well drillers and pump installers who have approached him and have expressed interest in this topic.

M. Ortega provided a brief update on the revisions to the Course Provider Application and the Well Driller and Pump Installer License Application. He said that in the May meeting, the Department had agreed to present new applications to the Board by the July meeting. M. Ortega said that the Course Provider Application draft is almost complete and that himself and S. Reya will finalize the license applications in the coming weeks.

J. Yost asked if the Department has noticed a decrease in the number of license application submittals. He added that there has been a decline in the number of drillers with the knowledge and experience to drill public community supply wells. S. Reya noted that the number of license

applications has been up recently, however, there are not many individuals who are applying for their Master Well Driller license. He also said he has noticed that not many people are looking to go into that specific field currently and that there are only a few drilling contractors that specialize in public community/municipal well work.

S. Reya informed the Board that M. Ortega had drafted a reminder letter for all licensed well drillers and pump installers to remind them of the upcoming CEP deadline. Well Permitting staff is looking to finalize the letter in the coming weeks. He added that the Department intends on sending out letters every three months, until the deadline in March 2023.

**5. Program Updates-**

S. Reya announced that Lynn Stout would be retiring after 44 years with the Department. Lynn's work in the Well Permitting Unit has been extremely valuable and will be missed by her colleagues. G. Poppe thanked Lynn for all of her service and added that not only will she be missed, but her departure will be something that the Department will never be able to replace. The Board members thanked Lynn for her service and wished her a happy and safe retirement.

**6. Adjournment-**

**At 9:58 am, a motion to adjourn the meeting was made by J. Hoffman, seconded by E. Hoffmann, and approved unanimously.**



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for July 21, 2022

*Approved by the Board on August 18, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone/Microsoft Teams:** Art Becker (Chairman), Gary Poppe (Vice-Chairman), Joe Yost, Gordon Craig, Dave Lyman, Eric Hoffmann, and Richard Dalton

**Board Members Absent:** Jeff Hoffman and Steve Domber

**Board Legal Representative Present:** N/A

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** Brian McGuire; SGS North America Inc. (SGS)/New Jersey Ground Water Association (NJGWA), Wesley Eichfeld; SGS, Dermot Dillon; Summit Drilling/NJGWA

#### 1. Call to Order-

The meeting was called to order at 9:31 am with a quorum present via Microsoft Teams and telephone. Notice of the meeting and instructions on how to participate by video or phone were listed on the Department's website.

A. Becker thanked the members of the public for attending the meeting.

#### 2. Review and Certification of the June 16, 2022 Meeting Minutes-

A motion to approve the draft minutes from June 16, 2022 as written was made by G. Poppe, seconded by E. Hoffmann, and approved by all except for A. Becker and D. Lyman who abstained as they were not present for the June meeting.



### 3. Review and Certification of License Applications-

A. Becker listed the names of the three license applicants; there were two applicants for the Environmental Resource and Geotechnical (ERG) well driller license and one for the Pump Installer license. A. Becker asked if there were any comments on the applicants, who are listed below.

License Type	Applicant Name	Employer
Pump Installer	Bryan M. Giles	All Hours Emergency Pump and Well Repair
ERG	Dino E. Selders	Gregg Drilling, LLC
ERG	Christian A. Tormen	Summit Drilling, LLC

G. Craig said that he was surprised that someone from Gregg Drilling, who is based out of California, applied for a New Jersey license. A. Becker said that Gregg Drilling is involved with the wind farm project off New Jersey's coast. He added that they have specialized equipment for the job. R. Dalton explained that most of the drilling will be completed outside of the state line, which is three miles offshore, but there would also be some borings that will within state waters.

**A motion to approve the three noted license applicants for licensure was made by G. Craig. This motion was seconded by D. Lyman and approved unanimously.**

### 4. Continuing Education-

#### *Rutgers*

A. Becker introduced the course, Geology, Hydrogeology, and Chemistry, presented by Rutgers. He added that the Department reviewed this course and determined the application to be administratively complete. He asked if any discussion was needed for this course. R. Dalton said that he believed the course was primarily designed for Licensed Site Remediation Professionals and would be more involved than what a well driller would need to know for their job and not relevant.

**A motion to approve Geology, Hydrogeology, and Chemistry was approved for six technical continuing education points was made by G. Poppe. This motion was seconded by E. Hoffmann and approved by all except for R. Dalton, who voted against the motion.**

A. Becker added that he plans on attending this course and thinks that it will be very worthwhile.

### 5. Revised Application Review-

#### *Course Provider Application*

A. Becker said that S. Reya and M. Ortega prepared revised applications for the Board to review. S. Reya suggested starting with the Course Provider Application, since it is the one that the Board specifically requested be revised. He added that M. Ortega spent the most amount of time revising this application. Currently, the Course Provider Application results in the most returned applications or the most requests for additional information. The proposed changes should alleviate this.

It was noted the current Course Provider Application is only two pages. The first page contains basic instructions and requests some contact information from the applicant. The second page contains a checklist for the applicant to check off when they have completed one of the required items. S. Reya explained that the new version contains text boxes, which allows the applicant to complete the application on this document. If they choose to complete the application in a separate document, they will write "See Attached" to indicate that they have answered the question on the application. S. Reya

added that M. Ortega greatly expanded the instructions and addressed some issues which resulted in administratively incomplete/deficient applications.

S. Reya reminded the Board that they requested that a deadline be placed on the application so the Board has sufficient time to review them prior to each meeting. Currently, the rule (N.J.A.C. 7:9D) states that applications should be submitted at least 90 days prior to the date when the course will be administered. The rule also allows the Department discretion to accept applications sooner than 90 days or after a course has already taken place. To address the Board's concern, language was added that says that applications "may be accepted within 10 days of a Board meeting." This is consistent how the Department does for license applicants to allow time for members to be provided with documentation in need of review prior to each meeting.

S. Reya asked the Board if they had any feedback or suggestions. A. Becker said that the revised application looked good and addressed all their concerns. He thanked S. Reya and M. Ortega.

#### *License Applications*

S. Reya said that the license applications should be more straightforward. First, he provided a brief history of license applications to the Board. Before the rule was updated in 2018, the Department had a different application for every license type. After 2018, the Department merged the applications into one, combining all the license types into one application. Over the last few years, there has been some confusion among applicants, specifically with pump installer applicants, which made Department staff consider creating a separate pump installer license application.

S. Reya and M. Ortega created a new, standalone, application for pump installer applicants. All categories of well driller license applicants will continue to use one license application. During the May meeting, S. Reya discussed with the Board the possibility of requiring five invoices to verify the work experience of pump installer applicants; this now appears on the version of the application which was presented to the Board.

S. Reya asked the Board to submit any comments or suggestions to either him or M. Ortega by the end of the following week. J. Yost asked if the pump installer application which was presented applies to pump installers who specialize in public community supply wells. S. Reya said that it applies to anyone who is applying for a pump installer license and that when the pump installers take their exams, they can either take the exam for high-capacity pumps (over 100 gallons per minute) or low-capacity pumps (under 100 gallons per minute). D. Lyman asked if the name of the license applicant needs to appear on the invoice. S. Reya said that the applicant's name does not need to be on the invoice.

A. Becker expressed his concerns about leaving customer information on submitted invoices. The Board and the Department agreed that customer information, including their name and any financial details, can be redacted when submitting the application. A. Becker asked S. Reya and M. Ortega to make note of this in the application.

Mr. Dermot Dillon thanked S. Reya and M. Ortega for their work in revising these applications and for their work on the licensing and continuing education programs.

#### **6. Enforcement Update-**

S. Vargo said that 14 Notices of Non-Compliance (NONC) were sent out in late-April. The Department had heard from several of the licensees who had received NONCs, and many were

determined to be administrative errors upon review of additional information. The Department reviewed all evidence provided by the well drillers and rescinded five of the NONCs.

S. Vargo discussed ongoing inspections that are occurring at blueberry farms throughout Atlantic County. Staff from the Well Permitting Section, Water Compliance and Enforcement, and Division of Water Quality conducted initial site inspections of these facilities between June and August of 2021. S. Vargo added that Southern Water Compliance and Enforcement recently issued 19 Notices of Violation to some of the farm owners. The violations were mostly due to potable wells being too close to septic systems or wells permitted for non-potable use were being used for drinking water.

Next, S. Vargo discussed a complaint from a homeowner in Plainsboro. The homeowner reported that an illegal hand dug well was being constructed on a nearby property. S. Vargo requested photo documentation before reaching out to the potential violator of the rule. After receiving photos and a written description of the well in question, which refuted the complaint and proved that what was constructed was not a well in violation of N.J.A.C. 7:9D, S. Vargo reached out to the property owner. S. Vargo proceeded to show pictures of the apparent, which ended up being a drum used for water storage that looked like stone-lined hand dug well at ground surface.

A. Becker thanked S. Vargo for the update.

## **7. Portland-Limestone Cement-**

A. Becker said that he asked for this topic to be added to the agenda. He said that he is licensed in Michigan and recently received a notice from the Department of Environment, Great Lakes, and Energy regarding changes in the cement industry. The notice stated that the concrete industry has switched their manufacturing of Type 1 Portland cement to Portland-limestone cement (Type IL). This change, which contains higher amounts of limestone, is due to manufacturers trying to reduce their carbon footprints. After reading this information, A. Becker said that he forwarded it to S. Reya so the Board could discuss the potential ramifications of Type 1 cement being phased out nationally.

A. Becker asked R. Dalton for his thoughts on Type IL Portland cement. R. Dalton said that he was not sure if this new cement would be pumpable or meet the permeability requirements in New Jersey. A. Becker noted that he did some research and read that this type of cement takes longer to set. G. Craig added that he reached out to several cement manufacturing companies after reading the notice that A. Becker received. He asked for additional time to get more information from the manufacturers and requested that the Board table this topic until the next meeting.

R. Dalton said that he went on the Portland website and could not find any reference to permeability of Type IL Portland cement. Currently, the use of Portland Type 1, Type 2, and Type 3 cement are acceptable in New Jersey to grout well casing and the annular space between well casing(s). R. Dalton added that someone would need to do a grout demonstration with this type of grout so the Board can determine if it meets New Jersey's requirements. The Board members expressed disbelief after seeing no mention of Type IL cement's permeability in the Michigan letter to water well drilling contractors.

A. Becker said that this change will universally affect the drilling industry. He asked G. Craig to report back to the Board after he's had time to reach out to his contacts in the cement manufacturing industry. A. Becker asked for G. Craig to find any information he could about the pumpability and permeability of Type IL cement.

E. Hoffmann noted that this change in composition may be because of the environment, social, and governance movement, otherwise known as the ESG movement. Companies use the ESG movement to build in more sustainable ways and produce products that are more environmentally friendly. He added that this change in cement composition is likely to be nationwide instead of being specific to certain regions of the United States.

**8. Princeton University Geothermal Well Drilling Update/Heating Ventilation Air Conditioning and Refrigeration (HVACR) and Well Driller Licensing Requirements-**

S. Reya discussed the ongoing project at Princeton University. The University recently completed the second phase of project, which was in West Windsor. The third phase of the project just started, back on the Princeton side. S. Reya reminded the Board that the University is trying to have zero emissions by 2046, which is their 300<sup>th</sup> anniversary.

S. Reya informed the Board that an issue was brought to his attention while the geothermal well contractor was running the lateral lines at the West Windsor site. An inspector from West Windsor informed the well drilling contractor that what they were doing was a violation of the Heating, Ventilating, Air Conditioning and Refrigeration (HVACR) Contractors Rule, N.J.A.C. 13:32A. S. Reya reminded the Board that both G. Poppe and former Board member and Water Supply and Geoscience Director, Fred Sickles, commented on the proposed HVACR rule back in 2012. Several Board members also noted that they attended a meeting in Newark to discuss the rule proposal at which they raised the apparent conflict with the N.J.A.C. 7:9D which stipulates the circulating fluids that must be used in closed loop systems and how horizontal lines must be joined.

S. Reya said that he called the West Windsor inspector to try to get some clarification from him. The inspector pointed S. Reya to minutes from an April 5, 2022 meeting of the State Board of HVACR Contractors. S. Reya read the minutes but was not clear as to the context of the motion and has requested additional information related to this matter.

S. Reya noted that he wanted to bring this to the Board's attention and asked for input from G. Craig and G. Poppe since they were the most familiar with the subject. He inquired as to whether either have been informed by any inspectors that they were unable to run geothermal lateral lines in residential or commercial geothermal well installations. G. Craig said that this is a big problem that needs to be addressed. He was not sure what advice to provide since it appeared to be a rule issue between two state agencies. G. Poppe agreed and noted that it sounded similar to what happened with New Jersey licensed plumbers regarding the jurisdictional issues with 7:9D and the plumbing subcode, which were clarified in a 1988 Consent Order and subsequent Department of Consumer Affairs (DCA) bulletin. R. Dalton suggested getting the Board's Deputy Attorney General (DAG), Jill Denyes, to investigate this problem.

A. Becker asked how the Board would like to handle this issue. R. Dalton reiterated his stance that DAG J. Denyes, who was unable to attend this meeting, needs to be notified about this. S. Reya added that at no point in time did anyone issue stop work orders to the geothermal well contractors on the West Windsor site. G. Craig suggested being proactive to deal with this issue. A. Becker suggested that the Board make a motion to have the Department attempt to reach a resolution on this topic.

**G. Craig made a motion to have the Department get clarification from the HVACR Board to reach a resolution. This motion was seconded by G. Poppe and approved unanimously.**

**9. New Business-**

Mr. Brian McGuire asked S. Reya and M. Ortega a question about testing. He said that a member of his staff has been trying to schedule an exam but said that the testing vendor says that pre-approval is needed from the Board. S. Reya explained that pre-approval is not required for New Jersey well driller or pump installer exams. Mr. McGuire said that he will follow up with the testing vendor and will follow up with the Department if needed.

**10. Adjournment-**

A. Becker thanked the Board and members of the public for attending. The next scheduled Board meeting will be held on Thursday, August 18<sup>th</sup>.

**At 10:21 am, a motion to adjourn the meeting was made by G. Poppe, seconded by G. Craig, and approved unanimously.**



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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### **New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for August 18, 2022**

*Approved by the Board on September 15, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone/Microsoft Teams:** Gary Poppe (Vice-Chairman), Joe Yost, Gordon Craig, Eric Hoffmann, and Jeff Hoffman

**Board Members Absent:** Art Becker, Dave Lyman, Richard Dalton, and Steve Domber

**Board Legal Representative Present:** Deputy Attorney General (DAG) Kevin DeCristofer, New Jersey Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** Wesley Eichfeld; MB Drilling, Dermot Dillon; Summit Drilling/New Jersey Ground Water Association (NJGWA)

#### **1. Call to Order-**

The meeting was called to order at 9:31 am with a quorum present via Microsoft Teams and telephone. Notice of the meeting and instructions on how to participate by video or phone were listed on the Department's website.

After doing the roll call, Mr. Wesley Eichfeld informed S. Reya that SGS is now MB Drilling and to make note of the change in the minutes. S. Reya thanked Mr. Eichfeld for the notification.

#### **2. Review and Certification of the July 21, 2022 Meeting Minutes-**

G. Craig pointed out a typo at the beginning of the second paragraph in agenda item number 3. S. Reya pointed out that the "G." in G. Craig's name was erroneously moved while formatting of the table of license applicants. Department staff will make the adjustment to the minutes.

**A motion to approve the draft minutes from July 21, 2022 with the correction to agenda item 3 was made by J. Yost, seconded by G. Craig, and approved unanimously.**

### 3. Review and Certification of License Applications-

S. Reya listed the names of the license applicants; there were two applicants for the Environmental Resource and Geotechnical (ERG) well driller license. S. Reya added that Mr. Frank Pelusio and Mr. Ben Shaffer both met the requirements for licensure.

License Type	Applicant Name	Employer
ERG	Frank Pelusio	ERFS
ERG	Ben Shaffer	TPI Environmental, Inc.

**A motion to approve the two license applicants for licensure was made by G. Craig. This motion was seconded by J. Hoffman and approved unanimously.**

### 4. Continuing Education-

#### *National Drilling Association (NDA)*

S. Reya introduced NDA's 2022 Convention to the Board. NDA requested six continuing education points (CEPs) for New Jersey well drillers and pump installers. After discussing the individual courses, the Board did not award any points for the keynote speech or the outdoor equipment presentations as the consensus was that they were not relevant to licensed well drillers/pump installers. The Board awarded one technical CEP each for Managing PFAS Challenges for Water Well Contractors and Why Bits Break. The Board awarded one safety CEP each for Safety Isn't Expensive, It's Priceless, Live Wire Safety Demonstration, and 12 Topics that Will Improve Your Safety Program and Attitude.

**A motion to approve NDA's 2022 Convention for two technical CEPs and three safety CEPs was made by G. Craig. This motion was seconded by J. Yost and approved unanimously.**

#### *South Atlantic Well Drillers*

S. Reya provided the Board with some background on the South Atlantic Jubilee. He said that throughout the years, well drillers and pump installers have asked for this course to be reviewed by the Board, but an application has never been presented until now. He added that this seminar includes 21 individual courses which the Board needs to review. M. Ortega provided the Board with a spreadsheet to easily go through the list of courses. S. Reya recommended that the Board go through each course and then make one motion at the end.

Additional discussion was required for the course, Groundwater Resource Development and Management in Response to Saltwater Intrusion on Hilton Head, SC. G. Craig objected to this course due to it being about a region outside of New Jersey. J. Hoffman, G. Poppe, and J. Yost believed that this course should be approved because saltwater intrusion is prevalent in certain parts of the Coastal Plain of New Jersey. G. Poppe cited a few examples of how additional instruction on saltwater intrusion could have prevented issues in the state. S. Reya read the course description for the Board. The Board took a vote on the course, and all were in favor except for G. Craig.

The Board stopped to discuss the courses, Legal Updates for the Water Well Industry and Family Business Succession: Estate Planning. The Board members unanimously decided to deny both courses.

S. Reya paused to discuss Mr. Thomas Ballard's course, Locating New Water Wells Using Free Online Tools. He added that Mr. Ballard did the training videos for All Star Training, which he said he and A. Becker found to be very informative.

The Board discussed the course, Ortho Scopic Well Rehabilitation, and asked S. Reya to read the course description. S. Reya said that the course was about down hole videos and read the course description to the Board members.

The Board also denied two additional courses: Creating Expectations and Goals: Programs for New Hires – Generation Z and Who Wants to be a Millionaire Driller.

At the end of the discussion, S. Reya and M. Ortega tallied up the number of approved courses. The Board voted to approve 17 of the 21 courses; 15 were for technical credits and two were for safety credits.

**A motion to approve the 17 courses, listed in the table below, was made by G. Craig. This motion was seconded by J. Hoffman and approved unanimously.**

Course Name	CEPs
Intro to Well Rehab and Maintenance	1 Technical
Intro to Submersible Electrical Motors	1 Technical
VFDs & Boosting Opportunities	1 Technical
The Future of the Water Well Business - Permanent Magnet Motors	1 Technical
Groundwater Resource Development and Management in Response to Saltwater Intrusion in Hilton Head Island, SC	1 Technical
Basics and Benefits of Dual Tube Flooded Reverse Drilling Process	1 Technical
World of Wells	1 Technical
A Contractor's Guide to VFD's	1 Technical
Locating New Water Wells Using Free Online Tools	1 Technical
Ortho-sopic Well Rehabilitation	1 Technical
Drilling - Managing and Disposing of Fluids and Solids Generated On-Site	1 Technical
Safety - Drilling & Pumps and OSHA Focus Four	1 Safety
Surface Water and Groundwater Interaction - An Examination of the Natural and Man-Made Ties that Bind Them	1 Technical
What Well Contractors Need to Know About Septic Systems and Other Obstacles	1 Technical
Air Drilling Best Practices - Application, Selection, and Maintenance	1 Technical
Power Quality and Pumps	1 Technical
Submersible Motor Troubleshooting (Where to start and staying safe)	1 Safety

#### *Phase Technologies/Aquaflow*

S. Reya introduced the course, VFDs – Magic Pill. This course would be taught by Mr. Jeremy McBride of Phase Technologies but would be hosted by Aquaflow in early 2023. The presenter is requesting five technical CEPs. G. Poppe asked where the course was being held. M. Ortega said that Aquaflow usually uses the same venue as NJGWA's membership meetings in Eastampton.



**A motion to accept VFDs – Magic Pill for five technical CEPs was made by J. Hoffman. This motion was seconded by E. Hoffmann and approved unanimously.**

*NJGWA*

S. Reya introduced the course, September 2022 Membership Meeting with Solar Pumping Systems course. Two technical CEPs were requested. No additional discussion was needed.

**A motion to accept the NJGWA September 2022 Membership Meeting with Solar Pumping Systems course for two technical CEPs was made by J. Yost. This motion was seconded by G. Craig and approved unanimously.**

**5. Princeton University Geothermal Well Drilling Update/Heating Ventilation Air Conditioning and Refrigeration (HVACR) and Well Driller Licensing Requirements Update-**

S. Reya discussed the background of this topic, which was discussed in detail during the July 2022 meeting. After the meeting, S. Reya discussed the situation with DAG J. Denyes, who had missed the July meeting. She offered to contact the HVACR Board's DAG on the Board's behalf regarding the potential conflict between the interpretation of two state regulations.

S. Reya said that DAG J. Denyes had contacted the HVACR Board's DAG who confirmed that licensed well drillers can run both vertical, as well as horizontal and lateral lines. A HVACR contractor's jurisdiction as stipulated at N.J.A.C. 13:32A, however, includes the final connection between any horizontal and lateral line to a heat pump or other HVACR related appurtenance into the structure.

S. Reya said that this topic was going to be discussed during the HVACR Board's next meeting on Tuesday, September 6<sup>th</sup>. S. Reya told the Board members that if they wanted to attend to hear the discussion, he would forward them the link to the Zoom meeting. S. Reya asked if DAG K. DeCristofer, who attended the meeting in place of DAG J. Denyes, had anything to add to the discussion. He thanked S. Reya and said that he had nothing to add.

**6. Program Updates-**

T. Pilawski asked to add a brief item to the agenda to discuss some recent program updates. She said that the Bureau of Water Allocation and Well Permitting (Bureau) recently hired two new full-time staff members; one of which has started and another which is awaiting an official start date. Ms. Michelle Herbert is joining the Well Permitting Unit to assist with well searches and Ms. Jillian Walker is joining the Technical Assistance and Licensing Unit. Both staff members worked in the Well Permitting Section as temps/hourlies before being offered full-time positions. T. Pilawski briefly mentioned how the Bureau is still waiting the positions held by Julia Altieri and L. Stout to be posted.

**7. Adjournment-**

G. Poppe thanked the Board and members of the public for attending. The next scheduled Board meeting will be held on Thursday, September 15<sup>th</sup>.

**At 10:16 am, a motion to adjourn the meeting was made by E. Hoffmann, seconded by J. Hoffman, and approved unanimously.**



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

PHILIP D. MURPHY  
*Governor*

SHAWN M. LATOURETTE  
*Commissioner*

SHEILA Y. OLIVER  
*Lt. Governor*

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NEW JERSEY GEOLOGICAL AND WATER SURVEY ELEMENT  
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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for September 15, 2022

*Approved by the Board on October 20, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone/Microsoft Teams:** Art Becker (Chairman), Gary Poppe (Vice-Chairman), Gordon Craig, Dave Lyman, Eric Hoffmann, and Richard Dalton

**Board Members Absent:** Joe Yost, Jeff Hoffman, and Steve Domber

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, New Jersey Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Michael Schumacher, Mark Ortega, Steve Vargo, Michelle Herbert, and Jillian Walker

**Members of the Public:** Brian McGuire; MB Drilling, Denis Crayon; Summit Drilling (9:37 am), Don Creyts; Advanced Geothermal Technology (10:16 am)

#### 1. Call to Order-

The meeting was called to order at 9:32 am with a quorum present via Microsoft Teams and telephone. Notice of the meeting and instructions on how to participate by video or phone were listed on the Department's website.

S. Reya introduced the Well Permitting Section's two newest full-time hires: Ms. Michelle Herbert and Ms. Jillian Walker. M. Herbert will be joining the Well Permitting Unit, assisting with processing Well Search Questionnaires. J. Walker will be joining the Technical Assistance and Licensing Unit, where she was formerly an hourly. The Board welcomed them both.

#### 2. Review and Certification of the August 18, 2022 Meeting Minutes-

A motion to approve the draft minutes from August 18, 2022 as written was made by G. Poppe, seconded by E. Hoffmann, and approved by all except for A. Becker, R. Dalton, and D. Lyman, who were not present during the August meeting.

**3. Board Meeting Dates for 2023-**

A. Becker read the list of proposed dates for the 2023 calendar year. The list included four tentative in-person meetings and eight conference calls, which would continue to be held on Microsoft Teams. A. Becker read the list of approved dates to the Board: January 19, February 16, March 16, April 20, May 18, June 15, July 20, August 17, September 21, October 19, November 16, and December 21. These meetings all occur on the third Thursday of each month at 9:30 am.

After review of the proposed dates, A. Becker noted that he will be unable to attend the January meeting. He asked if there were any other conflicts, however, no one stated that there were additional conflicts with any of the proposed meeting dates.

**A motion to approve the proposed meeting dates for 2023 was made by G. Craig, seconded by E. Hoffmann, and approved unanimously.**

**4. Review and Certification of License Applications-**

S. Reya introduced the topic and discussed the applicant who applied for the Master well driller license, Mr. Michael Kane. Mr. Kane had written a letter to the Board in March 2021 and requested them to review an issue that he encountered in which he took and passed his Journeyman well driller exams under the Department-administered examinations in effect prior to 2018 but was awarded his license after the rule was updated in 2018. The 2018 rule contained a new testing format and two examination paths for Master well driller applicants: one for Journeyman well drillers licensed before January 2, 2018 and one for Journeyman well drillers licensed on or after January 2, 2018. S. Reya reminded the Board that they made a motion in support of his request, noting that Mr. Kane was the only licensee who this would affect. After the Board's motion, the Department communicated to Mr. Kane that he could proceed with taking the exams as if he was licensed prior to January 2, 2018.

A. Becker went over the list of license applicants: one Master well driller, one Pump Installer, and one Environmental Resource and Geotechnical (ERG) well driller. A. Becker asked G. Poppe about the pump installer applicant, Mr. Adam Primost, with whom he currently works. G. Poppe praised the applicant's dedication and complimented his industry knowledge.

License Type	Applicant Name	Employer
Master	Michael Kane	ETD Inc.
Pump Installer	Adam Primost	Pickwick Well Drilling
ERG	Daniel Ruth	TPI Environmental

**A motion to approve the three license applicants for licensure was made by G. Craig. This motion was seconded by D. Lyman and approved unanimously.**

**5. Continuing Education Course Application Review-**

*National Ground Water Association (NGWA)*

A. Becker asked S. Reya to go over the list for NGWA's Groundwater Week, which is to be held in December 2022 in Las Vegas. S. Reya said that M. Ortega created an Excel spreadsheet to assist the Board in the review of these courses. NGWA submitted an application for the Board to review 33 courses, however, M. Ortega determined that only 31 of these courses were administratively complete. It was also noted that M. Ortega has been working with NGWA to obtain the missing instructor biographies, adding that those courses will be brought before the Board during a later meeting. S. Reya also explained that NGWA will be recording all of the courses and will be offering

online versions of them via the NGWA Learning Center in January 2023. Any courses approved for the convention will also need to have their online versions approved.

R. Dalton expressed his disappointment with the course descriptions provided by NGWA, adding that most of them were not very useful for him. A. Becker agreed that some of the course descriptions were lacking sufficient content. M. Ortega added that the Department does not review the course descriptions and only ensures that they are provided. He noted that since the information is sent out a week in advance of the meeting, Board members can reach out to him and/or S. Reya if they need clarification of a specific item listed in the course application.

S. Reya began reading the list of courses. The Board would stop to discuss courses which they had questions, needed additional information, or disagreed with the approval of the class.

The Board unanimously denied the course, Creating Expectations and Goals – Programs for New Hires and Generation Z. M. Ortega noted that this course was denied when it was offered as part of the South Atlantic Jubilee.

The Board stopped to discuss the course named, Understanding Your Inputs, Protecting Your Margins, and Generating Enough Revenue to Replace Equipment on Schedule. R. Dalton said that he believes that this course is unacceptable. E. Hoffmann agreed. G. Poppe, G. Craig, and D. Lyman all expressed the need fact that everyone needs to think outside of the box and that well drillers and pump installers will always be taking the same classes if the Board is so restrictive.

A. Becker clarified with DAG J. Denyes that the Board has the latitude to accept courses which have a business or industry focus for technical credits. J. Denyes agreed with A. Becker's assessment and said that the rule gives the Board the latitude to make those decisions. A. Becker asked S. Reya to hold a vote on this course. In favor of accepting this course was A. Becker, G. Poppe, G. Craig, and D. Lyman. Against accepting this course was R. Dalton and E. Hoffmann. The Board moved to accept this course.

A. Becker added some context to why he personally voted in favor of accepting the course. He discussed instances where improper business practices have been brought to the Board for review, adding that there have been many letters written to them over the years. He said that it is important to give everyone an opportunity to learn about better business practices. E. Hoffmann thanked A. Becker for his perspective, adding that it was helpful for him to hear that, especially as a newer Board member.

The Board unanimously denied the course, A Proven Framework for Building Your Brand.

The Board paused to discuss the course, All Things Hammers and Bits. The Board members agreed that while the course would probably be acceptable based on the topic, the course description did not give them enough information to understand what was going to be discussed. The Board asked M. Ortega to request a better description on their behalf. M. Ortega said that he would reach out to NGWA and added that since Ms. Kathy Butcher left, who had been heading their learning program for a considerable amount of time, that there would probably be a learning curve for the person who replaced her.

The Board unanimously denied the course, Using Search Engine Optimization and Social Media to Grow Your Business.

The Board unanimously denied the course, Experiences in Water Well Drilling in Developing Countries – How You Can Help and What “Help” Might Mean.

The Board paused to discuss the course, HE IX Softening – Exchanging Salt for Savings. R. Dalton inquired if this course advertised a specific product. G. Poppe and A. Becker said no, adding that it was a type of technology and not a specific product. A. Becker also mentioned that NGWA has strict requirements that prevent instructors from lecturing about their company. R. Dalton thanked them for the information. The Board voted to approve this course.

The Board stopped to discuss Understanding Internet of Things (IoT). Based on the provided course description, there was not enough information for the Board to approve or deny this course. A. Becker asked M. Ortega to try to get some additional information on this course.

There was some discussion regarding the course, Energy Based Hazard Identification. Some Board members did not know what type of energy would be discussed. A. Becker asked Mr. Denis Crayon to weigh in on this topic. Mr. Crayon added that the course would likely cover all forms of energy. E. Hoffmann brought up how they might discuss the energy wheel, which is a visual tool to identify sources of energy and the control hazards associated with each form. A. Becker asked for a vote on this course. In favor of approving this course was A. Becker, G. Poppe, G. Craig, D. Lyman, and E. Hoffman. Against the approval of this course was R. Dalton. The Board moved to approve the course.

The Board unanimously denied the course, Family Business Succession: Estate Planning. M. Ortega noted that this course was denied when it was offered as part of the South Atlantic Jubilee.

A. Becker provided some clarification to what NGWA listed for the course named, Contractor’s General Membership Meeting and McEllhiney Lecture. He said that this course is only for the McEllhiney Lecture, adding that he did not want there to be any confusion. A. Becker praised the presenter for this course, Mr. Fred Rothauge, saying that he is an excellent speaker.

A. Becker asked for S. Reya to put the rest of the continuing education discussion on hold, as Mr. Don Creyts of Advanced Geothermal Technology had joined the call for the next agenda item.

Before moving on, the Department tallied up the courses which were approved and denied by the Board. S. Reya, M. Ortega, and J. Mattle confirmed that the Board approved 23 courses and denied five. Of the 23 that were approved, 20 were for technical CEPs and three were for safety CEPs. Each approved course was an hour in duration, so each of the approved courses would receive one continuing education point (CEP) for the respective category.

**R. Dalton made a motion to accept the 23 courses for Groundwater Week 2022 and for the recorded online versions of each course. This motion was seconded by G. Craig and approved unanimously.**

M. Ortega asked the Board if any of the course descriptions that NGWA provided stood out to them as being thorough. He added that it would be helpful to know which ones met their criteria so he could use them as examples when he reports back to NGWA and requests additional information for the ones that they determined to not have enough info. The Board members pointed to the course named, Well Performance Evaluation – Data Collection and Analytical Techniques to Assess Well Condition and Performance. They noted that they liked this description and appreciated how the learning objectives were broken down in a bulleted list. M. Ortega thanked the Board for their input.

Below is a list of courses approved by the Board:

<b>Course Name</b>	<b>CEPs</b>
Air Drilling Best Practices	1 Technical
Understanding Your Inputs, Protecting Your Margins, and Generating Enough Revenue to Replace Equipment on Schedule	1 Technical
Alternative Drilling Fluids for Deep Large Diameter Wells	1 Technical
Chlorine, the Most Misunderstood Chemical in the Water Well Industry	1 Technical
Recruiting, Hiring, Training, and Retaining the Next Generation of Drillers	1 Technical
Innovative Techniques for Well Design – Not for the Faint of Heart	1 Technical
Pump Panel Electrical Installation and Maintenance	1 Technical
HE IX Softening – Exchange Salt for Savings	1 Technical
Proper Drill Site Assessment, Preparation, and Execution	1 Technical
Energy Based Hazard Identification	1 Safety
Smart Motors and Intelligent Systems for the Next 100 Years of Groundwater Pumping	1 Technical
Water Well Decommissioning/Sealing	1 Technical
Basic Pump Sizing Tools & Calculations	1 Technical
Construct and Design a Well that is a Good Value to the Owner	1 Technical
Electrical Safety in Drilling and Pump Service	1 Safety
Hazard Identification Tactics – “Why Didn’t I Say Stop”	1 Safety
A Contractor’s Guide to VFD’s	1 Technical
Fundamentals of Electric Motors	1 Technical
4” Motors and Meters	1 Technical
ef fi cien cy – All About Permanent Magnet Motors	1 Technical
Contractors General Membership Meeting with McEllhiney Lecture	1 Technical
Off-Grid Water Pumping – Demystifying Solar for You and Your Customer	1 Technical
Well Performance Evaluation – Data Collection and Analytical Techniques to Assess Well Condition and Performance	1 Technical

Below is a list of courses denied by the Board:

<b>Course Name</b>
Creating Expectations and Goals – Programs for New Hires and Generation Z
A Proven Framework for Building Your Brand
Using Search Engine Optimization and Social Media to Grow Your Business
Experiences in Water Well Drilling in Developing Countries – How You Can Help and What “Help” Might Mean
Family Business Succession: Estate Planning

#### 6. **Advanced Geothermal Technology – Proposed Alternations to Direct Exchange (DX) Geothermal System-**

S. Reya briefly discussed the approval that was issued to Total Green for their DX geothermal system. Mr. Don Creyts submitted a letter to the Board that proposed two changes to the approval

which Total Green had received from the Department that he proposes to utilize in an Advanced Geothermal Technology system he would like to install at a residence in New Jersey. The first proposed change is to the type of copper which can be used for the geothermal loop. Mr. Creyts noted that the Department's letter to Total Green referenced K-grade copper, however, a refrigerant-grade copper, consistent with ASTM B280, should have been listed. The second proposed change was to the material used in the annulus between the PVC pipe and the copper pipe. Mr. Creyts had speculated that the copper pipe would deteriorate because of the cementitious grout; he proposed using sand in the annulus instead, which he believed would better allow for expansion and contraction of the copper piping during operation.

Mr. Creyts discussed copper sizing requirements and ASTM specifications with the Board. Mr. Creyts and S. Reya noted that Total Green's original submission indicated the correct ASTM requirement (ASTM-B280). S. Reya also mentioned that he reached out to Total Green prior to the meeting to and confirmed that the incorrect copper type was listed on the approval letter. S. Reya said that he would revise the approval letter and redistribute it to the Board and Total Green.

Mr. Creyts explained his reasoning for wanting to use sand in the annulus between the PVC and the copper pipe instead of the cementitious grout which was approved. He said that there are studies that show cement walls causing breaks in copper tubing. Over the course of an annual cycle, the copper tubing can expand and contract about one inch. Mr. Creyts explained that this could lead to fatigue cracks in the copper. G. Craig asked if a bentonite-based grout could be used in place of cement to mitigate the fatigue cracks. Mr. Creyts said that using a bentonite-based grout is a possibility. He added that the K-factor, which is the measure of a material's ability to transfer heat, is only .3 for a cement-based grout while sand is 1.4. G. Craig asked if they could use any of the other approved geothermal grout mixes that the Board has already reviewed and approved. Mr. Creyts said that they have used CETCO and Baroid geothermal grout products previously when required to utilize grout.

G. Craig asked S. Reya if the PVC sleeve was a requirement as part of the approval. S. Reya said that the PVC sleeve design is required and what was approved by the Board and Department. G. Craig added that he believes that any of the approved geothermal grouts can be used between the PVC sleeve and the copper pipe. Mr. Creyts asked why the Board and Department are requiring the inner annulus to be grouted when the outer annulus is already grouted. G. Craig explained that the inner annulus would be a solution channel if sand was used and the copper piping failed. Mr. Creyts explained that each system has a magnesium anode in case of copper corrosion. R. Dalton asked if Advanced Geothermal Technology has experimented with putting copper tubing in water with a pH as low as 4, explaining that the pH is that acidic in parts of the Coastal Plain. Mr. Creyts said that they have not conducted that research.

A. Becker said that the Board and Department would need to have some additional discussions on this topic and asked G. Craig to do some additional research. He asked S. Reya to add this to the agenda for a future meeting.

Mr. Creyts asked R. Dalton about the effects of pH on steel casing, which is used in parts of New Jersey and is an approved material. R. Dalton said that there have been instances where pH has affected steel casing.

S. Reya discussed the Department's perspective on why grout is used instead of sand in the inner annulus. He noted that if sand was used, these wells would be very hard to decommission at the end of their lifetime. He added that if there is another viable option, the Department would look into it. A. Becker said that this warrants additional discussion and thanked Mr. Creyts for his input and for attending the meeting. Mr. Creyts expressed his appreciation to the Board for their consideration. He

followed up by saying that he can share additional information and studies that he referenced. A. Becker asked for Mr. Creyts to provide any scientific studies about copper to S. Reya so it can be forwarded to Board members.

**7. Continuing Education Course Application Review (continued)-**

*CETCO/Aquaflow*

A. Becker asked if any discussion was needed for CETCO's course, Water & Graphite; A Geothermal Game Changer. No discussion was needed.

**A motion to approve Water & Graphite; A Geothermal Game Changer for 1.5 technical CEPs was made by G. Poppe, seconded by D. Lyman, and approved unanimously.**

E. Hoffmann informed M. Ortega that the course description which was provided by CETCO was excellent if he ever needed to send an example to another provider. M. Ortega thanked E. Hoffmann for his input.

*Goulds Water Technology/Parkhurst Distributing*

A. Becker asked if any discussion was needed for the course, Electrical Basics/Motors and Troubleshooting. He added that the provider requested 6.5 CEPs for this course. No additional discussion was needed.

**A motion to accept Electrical Basics/Motors and Troubleshooting for 6.5 Technical CEPs was made by G. Craig, seconded by E. Hoffmann, and approved unanimously.**

*Heartsaver/Mr. Brian Buttari*

A. Becker said that Mr. Brian Buttari applied for a CPR/AED course that he took. A. Becker asked if any discussion was needed for this course. No further discussion was necessary.

**A motion to accept the CPR/AED course for Mr. Buttari for two safety CEPs was made by G. Craig. This motion was seconded by G. Poppe and approved by all except for R. Dalton who abstained from the vote due to Mr. Buttari being in his chain of command.**

A. Becker confirmed with S. Reya and M. Ortega that the last course from WorldWide Drilling was cancelled. M. Ortega said that he received an email from WorldWide on September 12<sup>th</sup> stating that they unexpectedly had to cancel the event and apologized for any inconvenience. A. Becker thanked M. Ortega for the update.

**8. Type 1L Cement (Replacement of Type I Cement)-**

S. Reya introduced the topic, stating that this was a follow up from the July meeting. A. Becker notified the Department and the Board that he had received a memo from Michigan, where he holds a well driller license, that Type I Portland Cement would be phased out in the coming months. Type I Portland cement would be replaced with Type 1L cement, which is a Portland-Limestone cement.

During the July meeting, G. Craig was tasked with obtaining additional information from his contacts in the cement manufacturing industry and reporting back to the Board. G. Craig confirmed that Type I cement is being phased out nationwide. G. Craig reported that none of the cement manufacturers have permeability data for Type 1L cement. G. Craig said that he is unsure who would be responsible for conducting the permeability tests, which are required for approval of new grouts in New Jersey. He said that he is looking to the Department for additional guidance for how to move forward.



A. Becker asked how the permeability data was obtained for Type I cement. R. Dalton said that he has information regarding the permeability data of Type I Portland cement from the 1960's from Halliburton. He added that former Board member, Mr. Anthony Tirro, also conducted permeability tests.

G. Craig stated that cement manufacturers are only concerned about the strength of the new product at this time. A. Becker asked R. Dalton to do some additional research to see if he can come up with something. R. Dalton said that he would try but admitted that he was not sure where to start with this.

E. Hoffmann recommended reaching out to Rutgers to see if their Engineering Department can run the necessary permeability tests. A. Becker asked E. Hoffmann to see if he can follow up with Rutgers to see if they would be able to do this. R. Dalton suggested reaching out to the New Jersey Ground Water Association (NJGWA) since this would affect the drilling industry in New Jersey. A. Becker volunteered to reach out to NJGWA. A. Becker also volunteered to reach out to the Michigan Department of Environment, Great Lakes, and Energy to see if they've collected any permeability data. R. Dalton added that two permeability tests costed about \$3,000 about 15 years ago.

#### **9. Program Updates-**

T. Pilawski discussed the recent hirings and current vacancies in the Well Permitting Section. She said that M. Herbert was a backfill for Amanda Blanda, who retired in November 2020. J. Walker is an entry-level backfill for Julia Altieri, who retired in June 2021. T. Pilawski added that the Well Permitting Section is still waiting for the two supervisory positions, vacated by Lynn Stout and Julia Altieri, to be posted and filled.

T. Pilawski briefly discussed the Well Permitting Section's work with inspecting blueberry farms, which is a joint undertaking with the Division of Water Compliance and Enforcement and the Division of Water Quality. She noted that there are 67 wells of concern and that staff members are working with the owners currently to address these issues. M. Schumacher and J. Mattle have been the main points of contact on this project.

J. Mattle informed the Board that the Department is in the very early stages of bringing two well drillers in front of the Board for licensing sanctions. This stems from multiple egregious violations of the well rule. T. Pilawski explained the process to the Board, for the benefit of the new members.

#### **10. Adjournment-**

A. Becker thanked M. Herbert and J. Walker for attending the meeting and welcomed them. M. Ortega noted that the next meeting would be held on Thursday, October 20<sup>th</sup>. Mr. Denis Crayon added that there was a NJGWA membership meeting on Tuesday, September 20<sup>th</sup> and encouraged everyone to attend.

**At 11:14 am, a motion to adjourn the meeting was made by G. Craig, seconded by G. Poppe, and approved unanimously.**



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

PHILIP D. MURPHY  
*Governor*

SHAWN M. LATOURETTE  
*Commissioner*

SHEILA Y. OLIVER  
*Lt. Governor*

DIVISION OF WATER SUPPLY AND GEOSCIENCE  
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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for October 20, 2022

*Approved by the Board on November 17, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone/Microsoft Teams:** Art Becker (Chairman), Joe Yost, Gordon Craig, Dave Lyman, Eric Hoffmann, and Richard Dalton

**Board Members Absent:** Gary Poppe, Jeff Hoffman, and Steve Domber

**Board Legal Representative Present:** N/A

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** Brian McGuire; MB Drilling, Nick Fallucca; MB Drilling, Wes Eichfeld; MB Drilling

#### 1. Call to Order-

The meeting was called to order at 9:36 am with a quorum present via Microsoft Teams and telephone. Notice of the meeting and instructions on how to participate by video or phone were listed on the Department's website.

#### 2. Review and Certification of the September 15, 2022 Meeting Minutes-

A motion to approve the draft minutes from September 15, 2022 as written was made by E. Hoffmann, seconded by D. Lyman, and approved unanimously.

#### 3. Program Updates-

J. Mattle discussed the current processing times for well permits, stating that they are currently taking longer than normal to process. He informed the Board that a tentative plan has been put in place to assist with well permit reviews. The plan is to take staff from the Technical Assistance and Licensing Unit (Technical Unit) and train them on the review and processing of well permits in order to alleviate some of the current backlog.

Additionally, J. Mattle discussed the recent letter that the Well Permitting Section had sent to all New Jersey licensed well drillers and pump installers. A portion of the letter was used to notify licensees about the current delays and advise them to pay close attention to the information that is submitted. J. Mattle noted that a large percentage of well permits are sent back technically deficient, which delays the approval process. J. Mattle briefly touched upon some intra-Departmental initiatives which have also slowed down processing times of irrigation well permits and well permits taken out for properties where combined pump capacity is above a certain threshold.

T. Pilawski discussed the staffing needs for the Well Permitting Section. She noted that the two supervisor positions, previously held by J. Altieri and L. Stout, are still vacant. Additionally, an entry-level backfill for L. Stout must be filled. She informed the Board that the Bureau of Water Allocation and Well Permitting was able to hire a permanent clerical staff member, Ms. Infiniti Harris.

T. Pilawski touched upon some of the lingering projects that the Technical Unit have been tackling. She discussed the transition of the New Jersey Environmental Management System (NJEMS), which is the Department's main database, to a new web-based system. She also mentioned that the blueberry farm inspections and subsequent follow-up have taken up a lot of staff time. Additionally, staff will likely be pulled in the future to start working on the horizontal directional drilling guidance.

T. Pilawski addressed a concern that A. Becker had brought to her attention prior to the meeting, in reference to well permit turnaround times. T. Pilawski noted that permit turnaround times have increased from an average of one day to an average of almost three days. She added that she has expressed the Board's concerns to the Director of Water Supply and Geoscience and the Assistant Commissioner of Water Resource Management. A. Becker thanked T. Pilawski and J. Mattle for the update. He noted that the loss of L. Stout due to her retirement was a huge loss for Well Permitting. He added that there is a lot of pressure that comes from their clients, especially from environmental firms. A. Becker asked that Department staff keep the Board and drilling community informed.

J. Mattle announced that he will be retiring effective May 1, 2023.

#### **4. Review and Certification of License Applications-**

A. Becker read off the list of two Environmental Resource and Geotechnical (ERG) well drillers who applied for licensure. He asked if anyone knew where Navarro & Wright Consulting Engineers, Inc. was located. M. Ortega said that he believed that they were based out of Pennsylvania.

License Type	Applicant Name	Employer
ERG	Brandon Pizzuti	Cascade Drilling
ERG	Joseph J. Mehalick	Navarro & Wright Consulting Engineers, Inc.

**A motion to approve the two license applicants for licensure was made by G. Craig. This motion was seconded by E. Hoffmann and approved unanimously.**

#### **5. Continuing Education Course Application Review-**

##### *Paradigm*

S. Reya introduced the course, Pipeline Safety & Coordinated Response Exercise. He said that the provider was seeking two continuing education points (CEPs) for this safety-related course. He added

that a New Jersey licensed Journeyman well driller had registered for this course and brought it to the Department's attention; M. Ortega had given the course provider an application shortly thereafter.

R. Dalton discussed how the course is related to One Call. A. Becker noted that he wanted more details on the course, so he attempted to take the course online but was not able to access it. He added that he still believed that the course was relevant.

**A motion to approve Pipeline Safety & Coordinated Response Exercise for two safety CEPs was made by R. Dalton. This motion was seconded by G. Craig and approved unanimously.**

*New Jersey Ground Water Association (NJGWA)*

S. Reya introduced the course, NJGWA November 2022 Membership Meeting with OSHA in the Workplace. He added that NJGWA is seeking two CEPs for this course, one technical and one safety.

**A motion to accept the NJGWA November 2022 Membership Meeting with OSHA in the Workplace course for one technical CEP and one safety CEP was made by J. Yost. This motion was seconded by D. Lyman and approved by all except for R. Dalton who voted against the motion.**

*National Ground Water Association (NGWA) Follow Up*

S. Reya said that during the September meeting, the Board tabled five courses. Two of the courses were identified as administratively incomplete by M. Ortega during the initial application review and three courses were determined to have inadequate course descriptions by the Board. S. Reya noted that M. Ortega reached out to NGWA, per the Board's requested, and asked for more detailed course descriptions for the three courses that they requested. However, the NGWA representative stated that she would not be able to obtain more detailed course descriptions and asked for the Board to pass on those courses.

S. Reya presented the information for the two courses which NGWA did provide instructor biographies that were not included with their initial submittals: The Variable Frequency Drive (VFD) Symposium and Sonic Drilling: What Does it Have to Offer. He added that the VFD Symposium was two hours long and the Sonic Drilling course was one hour long. Both courses will have online versions available in January, which could also be taken for credit, if approved.

**A motion to accept The VFD Symposium for two technical CEPs and Sonic Drilling: What Does it Have to Offer for one technical CEP was made by G. Craig. This motion was seconded by D. Lyman and approved unanimously.**

#### **6. Continuing Education Report on Status of Licensees-**

M. Ortega provided an update to the Board with the continuing education stats as of October 13, 2022. He reported that 71% of all licensees have started earning their CEPs. He reiterated that the Department expects that at least 75% of licensees meet the requirements by the March 31, 2023 deadline.

M. Ortega noted that there are still a lot of ERG well drillers and pump installers who still have not received any CEPs according to the Department's records. He added that there are over 60 active online course options available to all well drillers and pump installers, covering a wide variety of topics. M. Ortega praised some of the distributing companies, specifically Aquaflow and Parkhurst, for their efforts to hold large seminars for licensees. A lot of pump installers have earned their points from these seminars. M. Ortega brought up the various offerings for safety courses to the Board. A.

Becker confirmed with M. Ortega and the rest of the Board that the same course cannot be taken more than once in a cycle.

A. Becker asked if the issuance of renewal invoices and licenses will be delayed because of the current staffing woes facing the Well Permitting Section. M. Ortega said that the current staffing levels will have no effect on the issuance of renewal invoices and licenses. He recalled that in 2020, during the COVID-19 pandemic, he and S. Reya managed to take care of the coordination, sorting, and distribution of over 700 invoices and licenses. He added that all of the technical issues that were encountered, such as the wrong expiration dates appearing on all of the ERG licenses, should be hammered out moving into this new licensing cycle. A. Becker thanked M. Ortega for the update and praised his efforts for ensuring that the continuing education program runs smoothly.

**7. Other Business: Type 1L Cement (Replacement of Type I Cement)-**

R. Dalton asked to discuss the Portland Type 1 Cement replacement, Type 1L, which had been discussed during prior meetings. He said that he had reached out to some of his contacts to see if they had any permeability data on this new type of cement. He said that while no permeability tests have been conducted, he learned that the permeability could vary due to the percentage of limestone in the cement. G. Craig added that the amount of water in the grout mix would be greater due to limestone's ability to absorb water. He added that the mix ratio specified in NJ regulations would likely prove unpumpable with the new material composition. R. Dalton also pointed out that limestone can have different compositions, so results may vary.

A. Becker said that he spoke with the Portland Association, however, their focus is concrete, not grout. He said that they have not conducted any pump tests with this new material. E. Hoffmann said that he reached out to the Rutgers Civil Engineering Department but had never heard back from them. He added that he'll try to contact them again soon and that this would be a great research assignment for a graduate student.

A. Becker expressed his concerns and added that not many people in the industry know about this upcoming change. R. Dalton said that it does not sound like the oil and gas industry has been able to conduct permeability tests either as he was unable to find any available documentation. The Board agreed that determining the proper mix and conducting permeability tests and pump tests are information that is needed.

A. Becker asked if this could be captured on a well record. S. Reya said materials section of the well record currently only captures the total pounds of cement utilized, not the type of cement. E. Hoffmann asked if this request could be forwarded to the Department's Division of Science and Research. A. Becker asked Department staff how they could go about doing that. T. Pilawski said that J. Hoffman can submit a request to them for review. A. Becker said that he can send a letter or email to the Department as Board Chairman noting the importance of addressing this issue.

**8. Adjournment-**

A. Becker asked S. Reya when the next meeting would be held. S. Reya said that the next meeting will be held on Thursday, November 17, 2022.

**At 10:25 am, a motion to adjourn the meeting was made by G. Craig, seconded by D. Lyman, and approved unanimously.**



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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for November 17, 2022

*Approved by the Board on December 15, 2022*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone/Microsoft Teams:** Art Becker (Chairman), Gary Poppe (Vice-Chairman), Joe Yost, Gordon Craig, Dave Lyman, Eric Hoffmann, Jeff Hoffman, Richard Dalton, and Steve Domber

**Board Members Absent:** Gordon Craig

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Joe Mattle, Steve Reya, Mark Ortega, Steve Vargo, Jillian Walker, Michelle Herbert, Ray Bousenberry, and Abby Lodge

**Members of the Public:** Brian McGuire; MB Drilling

#### 1. Call to Order and Introductions-

The meeting was called to order at 9:32 am with a quorum present via Microsoft Teams and telephone. Notice of the meeting and instructions on how to participate by video or phone were listed on the Department's website. Before the roll call, S. Reya noted that G. Craig contacted him ahead of the meeting to let him know that he would be unable to attend.

S. Reya introduced Ms. Abby Lodge to the Board. He said that A. Lodge recently joined the Water Allocation Section as an Environmental Services Trainee. The Board welcomed her.

#### 2. Review and Certification of the October 20, 2022 Meeting Minutes-

A motion to approve the draft minutes from October 20, 2022 as written was made by J. Yost, seconded by D. Lyman, and approved by all except for G. Poppe and S. Domber who abstained due to not being present at the October meeting.

**3. Sunoco Jacobs Creek Horizontal Directional Drilling (HDD) Pipeline Replacement Project-**

S. Reya informed the Board that Department staff recently visited the site of the Sunoco Jacobs Creek HDD project. He reminded the Board that A. Becker and G. Craig participated in discussions with the Science Advisory Board's investigation into the potential regulation of HDD by the Department. S. Reya discussed the Department's current involvement with HDD projects. He said that the Department reviews geotechnical data from the soil borings completed before an HDD project starts. The Department also reviews inadvertent release (IR) response plans.

S. Reya discussed some of the details of the HDD project. The pilot hole, which begins in Upper Makefield, Pennsylvania, would be drilled under the Delaware River and come out on the border of Ewing and Hopewell Townships. A 10" pilot hole will be drilled approximately 2500 linear feet, as deep as 85 feet below the base of the Delaware River. The pilot hole will be reamed to 20" and a 14" pipe will be installed.

J. Hoffman asked Water Compliance and Enforcement to notify the Division of Water Supply and Geoscience in the event of an IR on this site. The consulting company has spotters along the Delaware River and uses drones to monitor for IRs.

R. Dalton noted that it was informative as he was able to discuss mud pump pressure versus "downhole" pressure at both the drill bit and annulus with the contractor representatives onsite. He mentioned that downhole pressure is important in understanding the potential for IRs and he briefly discussed the difference in pressure values reported at the mud pump and how that could differ from the downhole pressure.

A. Becker asked what drilling company was doing the drilling for this project. S. Reya said that Aaron Enterprises Inc. is performing the work. S. Reya noted that Aaron Enterprises Inc. also performed some of the drilling on the New Jersey Natural Gas Southern Reliability Link Pipeline. A. Becker asked where the company was based out of. R. Dalton said that they were based out of Pennsylvania.

A. Becker asked the Department if a licensed person will need to be on site during drilling if the Department regulates this part of the industry. Specifically, if a licensed person would be needed when drilling from another state into New Jersey. The Board members agreed that a licensed person would need to be on site if a well was being drilled into New Jersey. J. Hoffman briefly mentioned that if the Department does regulate this part of the industry, there will need to be revision to the current licensing program to allow for individuals who drill HDD wells to become licensed.

A. Becker asked if anyone on the Board knew about any HDD projects in the Long Beach Island area. R. Dalton talked about potential wind farm projects that are occurring in that area and noted that it is possible that HDDs would be utilized at points where power is brought onshore.

**4. Drought Conditions Status Update and Domestic Well Installation Data Presentation-**

S. Domber presented two Power Point presentations to the Board. The first presentation was a drought conditions update and the second was a presentation on domestic wells. S. Domber told the Board members that he would share the slides with S. Reya at the conclusion of the meeting so he could distribute them.

*Drought Conditions Status Update*

S. Domber began the presentation by stating that the Commissioner declared a drought watch on August 9, 2022. He briefly touched upon the different drought statuses: watch, warning, and

emergency. He added that the drought watch is ongoing as of the date of the meeting. S. Domber said that a drought watch focuses on voluntary reductions in water demand through increased public awareness.

S. Domber discussed the State Climatologist's report, which indicated that the Summer of 2022 was the fourth driest summer on record. He added that this past August was the warmest August on record. S. Domber showed the Board the most recent drought indicators, showing that precipitation was starting to rebound.

S. Domber finished the presentation and stopped for questions. A. Becker asked about water waste, specifically from communities waiting for water to heat up before taking a shower. He referenced his community, stating that he ran the numbers and estimated how much water was being wasted while waiting for a shower to heat up to the appropriate temperature. A. Becker said that he requested that his plumber to install a hot water recirculating system to ensure less waste occurs. S. Domber thanked A. Becker for his suggestion. S. Domber said that water conservation is a topic of discussion in the upcoming Water Supply Plan. He offered to brief the Board after the new Water Supply Plan is published. A. Becker accepted S. Domber's offer and mentioned that rain sensors should be mandatory for irrigation systems, in reference to water conservation.

#### *Estimating Number and Location of Domestic Wells in New Jersey*

S. Domber said that the 1981 New Jersey Water Supply Management Act directed the Department to develop and periodically revise the Water Supply Plan. He explained the different uses of water throughout the state, noting that domestic wells make up a small percentage of potable water usage in the state, about five percent.

Next, he presented some statistics which illustrated how the reliance on domestic wells varies significantly regionally. More urban areas are typically hooked up to public water and have less concentrations of domestic well usage, while more rural areas rely on domestic wells as their primary drinking sources.

S. Domber discussed how the Geological and Water Survey was able to estimate the total number of domestic wells in New Jersey. He added that in 2018, there were approximately 377,000 domestic wells in New Jersey.

S. Domber ended the presentation and thanked the Board for their time. A. Becker thanked S. Domber for presenting that information to the Board.

#### **5. Type 1L Cement/Phasing Out of Type 1 Cement-**

A. Becker reported that the well drilling industry has become more aware of this issue. He said that he spoke with a representative from Baroid, who said that the Type 1L cement is on their radar. A. Becker added that he'll be attending the National Ground Water Association's Groundwater Week in early December and will reach out to more contacts while he is there.

R. Dalton said that a lot of the cement used in New Jersey comes from New York and the Lehigh Valley. J. Yost asked if only Type 1 cement was going to be replaced. R. Dalton said that for now, only Type 1 would be replaced, but eventually Type 2 cement will also be replaced.

The Board speculated that grout mixes using Type 1L cement will require more water than normal. A. Becker said that it's the Board's goal to determine this grout's permeability and pumpability. S. Reya discussed A. Becker's letter to the Department, which requested the Division of Science and Research



to conduct the permeability test. A. Becker asked if E. Hoffmann had heard anything from Rutgers. E. Hoffmann had departed the call at 10:00 am, so S. Reya said that he would follow up with him to find out if he heard anything.

M. Schumacher suggested using N.J.A.C. 7:9D-2.8 to have the Board review this new material until the rules can be changed. R. Dalton reminded the Board that permeability tests still need to be conducted before the Board can take that action.

Mr. Brian McGuire advised the Board that the Port Authority has a laboratory that he is familiar with that performs a large volume of testing on concrete samples. He felt they may be able to assist as it is an intra-state agency. A. Becker recommended that the Department reach out to someone there to see if they could conduct some of these tests.

#### **6. Program Updates-**

J. Mattle addressed the ongoing delays with well permit reviews. He informed the Board that M. Herbert and some members of the Technical Assistance and Licensing Unit will undergo training so they can start to review permit applications. J. Mattle said that staff will also work on a letter to all well drillers which discusses technical deficiencies and how to avoid them. Someone will begin working on this over the holidays.

J. Mattle asked the Board a question regarding special permit conditions, which get placed on approved wells permits. Specifically, he asked if the property owner sees the special conditions that are placed on a permit. A. Becker asked if he was talking about a specific well use and J. Mattle said that he was mostly talking about Category 1 and Category 2 wells. A. Becker asked G. Poppe to provide his expertise on the subject. G. Poppe stated that everything is sent to the property owner, so they are made aware of any special permit conditions that appear on an approved well permit. J. Mattle thanked G. Poppe and the Board for their insight.

#### **7. Adjournment-**

A. Becker asked S. Reya when the next meeting would be held. S. Reya said that the next meeting will be held on Thursday, December 15, 2022.

**At 10:44 am, a motion to adjourn the meeting was made by G. Poppe, seconded by S. Domber, and approved unanimously.**



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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### New Jersey Department of Environmental Protection State Well Drillers and Pump Installers Examining and Advisory Board Meeting Minutes for December 15, 2022

*Approved by the Board on January 19, 2023*

**Board Members Present at NJDEP Headquarters Building:** N/A

**Board Members Participating Via Telephone/Microsoft Teams:** Art Becker (Chairman), Gary Poppe (Vice-Chairman), Joe Yost, Gordon Craig, Dave Lyman, Eric Hoffmann, Richard Dalton, and Steve Domber

**Board Members Absent:** Jeff Hoffman

**Board Legal Representative Present:** Deputy Attorney General (DAG) Jill Denyes, NJ Division of Law

**NJDEP Water Supply (Bureau of Water Allocation and Well Permitting) Staff Present:** Terry Pilawski, Joe Mattle, Steve Reya, Mark Ortega, and Steve Vargo

**Members of the Public:** None

#### 1. Call to Order and Introductions-

The meeting was called to order at 9:32 am with a quorum present via Microsoft Teams and telephone. Notice of the meeting and instructions on how to participate by video or phone were listed on the Department's website.

A. Becker wished everyone a happy holiday season. He praised the Board for all of the accomplishments that they've made over the year.

#### 2. Review and Certification of the November 17, 2022 Meeting Minutes-

A. Becker asked if any discussion was needed for the November minutes. S. Domber brought up a correction needed to the second to last paragraph of item four, in reference to the presentation he gave on domestic well installations. He said that the last sentence of the paragraph which says, "That number is probably closer to 400,000 in 2022", is erroneous. M. Ortega noted that he and S. Reya had already corresponded with S. Domber via email and will make the necessary correction to the minutes by omitting this sentence.

**A motion to approve the draft minutes from November 17, 2022 with the one noted correction was made by J. Yost, seconded by S. Domber, and approved unanimously.**

**3. Review and Certification of License Applications-**

S. Reya said that there was one license applicant for the Journeyman well driller license. This applicant is currently licensed as an Environmental Resource and Geotechnical well driller and passed all of the required certification exams and met all of the other requirements for the Journeyman license. No discussion was needed.

License Type	Applicant Name	Employer
Journeyman	David Lutterbach	Advanced Drilling Inc.

**A motion to approve one license applicant for licensure was made by G. Poppe. This motion was seconded by D. Lyman and approved unanimously.**

**4. Type 1L Cement/Phasing Out of Type 1 Cement-**

A. Becker started the discussion by saying that he attended the National Ground Water Association's Groundwater Week earlier in the month. He said that everyone in the industry that he spoke with regarding the change from Type 1 cement to Type 1L cement is unsure how to deal with the change and how to manage the process.

A. Becker asked S. Reya to comment on the Department's progress into finding a solution to have this new grout tested. S. Reya said that some staff within the Division of Water Supply and Geoscience had met with the Division of Science and Research to discuss options. He said that Science and Research does not have the capability to run any of the test in-house. They did say that they would be able to work with Rutgers or the New Jersey Institute of Technology (NJIT) to see if they would be able to perform the work. S. Reya added that he is unsure about the timing of everything and the capabilities of each lab. S. Reya noted that the Well Permitting Section will need to submit a scope of work to the Division of Science and Research in order for them to reach out to the labs at Rutgers and NJIT. He asked the Board members to think of some parameters to test so a scope of work can be drafted.

A. Becker said that no one in the industry has seen the product rolled out yet. G. Craig said that he would speak with his contacts in Pennsylvania to see when Type 1L cement will start to be distributed in our region. R. Dalton noted that he sent some of the Board members information that he found on Ohio oil and gas regulations. He said that he believes that Type 1L cement has already been used for oil and gas wells. There was some additional discussion about Halliburton creating their own cement grout.

A. Becker said that this will continue to be an agenda item for the foreseeable future. R. Dalton said that he is aware of three cement plants in the Northeast that produce Type 1L cement. A. Becker asked everyone to keep their eyes out on the cement that they receive in case the switch from Type 1 to Type 1L occurs abruptly.

**5. Program Updates-**

J. Mattle briefly talked about ongoing blueberry inspections and enforcement actions being taken against farmers who are out of compliance. There are multiple wells being decommissioned and new, permitted, wells are being constructed in place of the unpermitted wells. T. Pilawski briefly went into

the history of the blueberry farm inspections, which started occurring in the summer of 2021. She praised M. Schumacher for the work that he had done on these endeavors.

T. Pilawski briefly discussed the requirement of homeowners to hook into public water of new houses if there is an existing water main within 200 feet of the property boundary. This is stipulated in the Safe Drinking Water Act Rules, N.J.A.C. 7:10. T. Pilawski informed the Board that this requirement takes up a lot of time and staff resources to look into multiple times a week.

A. Becker asked for a status update on enforcement activities that the Well Permitting Section has done recently. T. Pilawski and J. Mattle indicated that the new process of delivering enforcement referrals to Compliance and Enforcement does not work for the Well Permitting Section. A. Becker discussed the repercussions of the Department not conducting field investigations or sending out fines and enforcement documentation. T. Pilawski had discussed two enforcement cases that were just taken on by Compliance and Enforcement.

G. Poppe departed the call at 10:06 am.

E. Hoffmann asked the Department about the staffing issues that T. Pilawski had brought up in prior meetings. T. Pilawski said that the Well Permitting Section still has not seen postings for the positions vacated by J. Altieri, who led the Technical Assistance and Licensing Unit, and L. Stout, who led the Well Permitting Unit. She added that the Well Permitting Section is also waiting on an entry level backfill for L. Stout in the Well Permitting Unit.

S. Reya departed the call at 10:08 am.

E. Hoffmann asked if there was any way that the Board could assist with ensuring that these positions get filled. He asked if the Board should write a letter to the Department's management to try to make filling these positions a priority. J. Mattle said that it would be prudent to have something from the Board. A. Becker said that 10 years ago drillers would do whatever they wanted because they knew that there would be no ramifications. He lamented that things are trending back to those times and he often hears from people that they do not think the Department will go after them if they violate a rule.

D. Lyman asked about hiring temps who are licensed well drillers and pump installers to conduct inspections. He added that licensees love to do inspections. T. Pilawski spoke about the ethical complications of hiring licensees to conduct well inspections.

The Board asked T. Pilawski who they should send a letter to regarding these issues. T. Pilawski told the Board that they can send the letter to the Assistant Commissioning of Water Resource Management, Patricia Gardner, and the Director of Water Supply and Geoscience, Patricia Ingelido.

**A motion was made by G. Craig to have the Board draft and submit a letter to the Department's management requesting that they fill the vacancies within the Well Permitting Section and add additional positions. This motion was seconded by D. Lyman and approved unanimously.**

A. Becker and E. Hoffmann volunteered to co-author the letter. E. Hoffmann said that he would write the first draft and share it with A. Becker. He asked A. Becker to share any template letters that he may have.

**6. Adjournment-**

M. Ortega noted that the next Board meeting will be held on Thursday, January 19, 2023. A. Becker said that he would be unable to make it to that meeting and that he would let Vice Chairman G. Poppe know.

**At 10:20 am, a motion to adjourn the meeting was made by G. Craig, seconded by E. Hoffmann, and approved unanimously.**