

August 31, 2017

Melanie A. Bachman, Esq.  
Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: **Petition No. 1178 - DESRI CT Fusion Acquisition, LLC for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed construction, operation and maintenance of a ground-mounted 20 megawatt solar photovoltaic electric generating facility located on Potash Hill Road, Sprague, CT**

Dear Attorney Bachman:

This submission is made on behalf of DEPCOM Power (“DEPCOM”) in response to the Connecticut Siting Council’s May 25, 2017 decision imposing additional conditions to the Development and Management (“D&M”) Plan for the Fusion Solar Facility in Sprague, Connecticut.

### Additional D&M Plan Conditions

1. Submission of the resumes of third-party engineers conducting an independent assessment of the storm water pollution control plan (“SWPCP”) design.
  - Included in Attachment 1 are the resumes of the following professionals from Kleinfelder Inc. (“Kleinfelder”) and Terracon Consultants, Inc. (“Terracon”):
    - Kleinfelder’s Raymond G. Culver (Professional Engineer); and
    - Terracon’s Jerry G. Salsgiver (Professional Engineer); and
    - Terracon’s Larry B. Page (Certified Professional in Erosion & Sediment Control).

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Melanie A. Bachman, Esq.

August 31, 2017

Page 2

- Also included in Attachment 1 are the resumes of erosion, sediment and stormwater control professionals with Fitzgerald and Halliday, Inc. (“FHI”), which performed an additional SWPCP implementation inspection after the Siting Council’s May 25, 2017 decision (the report from which is included with the third-party engineer’s reports referenced and attached herein):
  - FHI’s David Laiuppa (B.S. Natural Resource Management and Engineering; Certified Erosion, Sediment and Storm Water Inspector; Certified Soil Scientist); and
  - FHI’s Joshua Weiss (Professional Soil Scientist, Qualified Compliance Inspector of Stormwater, and Qualified Preparer of Storm Water Pollution Prevention Plans).
- 2. Submission of the results of the new topographic survey of the subject parcel.
  - Included in Attachment 2 of this filing is a set of copies (11 x 17) of the Kleinfelder’s five as-built “Compare and Contrast” drawings (issued June 14, 2017 in June 15, 2017 file), incorporating the updated topographic survey.
- 3. Submission of reports authored by third-party engineers regarding the assessment of the current SWPCP design.
- 4. Submission of any reports authored by third-party engineers regarding recommended modifications to the current SWPCP design.
  - Included in Attachment 3 and 4 are copies of the following:
    - Kleinfelder’s June 15, 2017 report memorandum to DEPCOM regarding Kleinfelder’s site inspection, updated topographic survey, and related SWPCP assessments and recommendations;
    - FHI’s June 15, 2017 Stormwater Construction Site Inspection Report, Plan Implementation Inspection;
    - Terracon’s May 30, 2017 letter report to Fusion Solar Center, LLC regarding the review of the SWPCP (all recommendations have been implemented, with the exception of SB-3, which the project is discussing with CT DEEP at this time);
    - Kleinfelder’s May 15, 2017 letter report to Neil Williams and Sharon Yurasevecz, Connecticut Department of Energy and Environmental

Melanie A. Bachman, Esq.  
August 31, 2017  
Page 3

Protection (“CTDEEP”), Water Permitting and Enforcement Division reviewing the May 5, 2017 discharge from Sedimentation Basin #3 and providing related recommendations.

5. Submission of the response to the Department of Energy and Environmental Protection’s Notice of Violation No. WR SW 17 004, dated April 25, 2017 (“NOV”).
  - Included in Attachment 5 are copies of the following:
    - May 10, 2017 letter from John Dalby on behalf of Fusion Solar Center LLC c/o D. E. Shaw Renewable Investments, LLC to CTDEEP’s Neil Williams regarding the NOV.
    - June 15, 2017 letter from Nick Detelich, PMP Project Manager with DEPCOM to CTDEEP’s Neil M. Williams regarding the NOV.

If you have any questions regarding any of the information provided, please do not hesitate to contact Will Porter, PE, Manager-Project Engineering with DEPCOM Power at (480) 586-1353 or me. Thank you very much for your continued assistance and cooperation.

Sincerely,



Kenneth C. Baldwin

KCB/see

Copy to:

Will Porter  
Nick Detelich  
Vesco Petrov, Esq.  
Shawn Markham, D. E. Shaw  
Tomohisa Aiko, Esq., D.E. Shaw  
Franca L. DeRosa, Brown Rudnick

# Tab 1

## Raymond G. Culver, P.E.

500 Enterprise Drive  
Rocky Hill, CT 06067  
(860-258-7144)  
[rculver@kleinfelder.com](mailto:rculver@kleinfelder.com)

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### PROFESSIONAL SUMMARY

Professional Engineer with 7+ years of experience in site and roadway design for both public and private sector clients. Strong technical background in site design, E&S controls, ADA compliance, roadway design, stormwater management and CTDEEP wetlands permitting procedures.

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### EDUCATION

**Master of Science in Environmental Engineering** 2011-2015  
*University of Hartford, West Hartford, CT*

**Bachelor of Science in Civil Engineering** 2006-2010  
*University of Hartford, West Hartford, CT*

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### EMPLOYMENT HISTORY

**Kleinfelder, Rocky Hill, CT** 2010-Present  
**Project Engineer**

- Perform third party reviews of CTDEEP General Stormwater Permits (SWPCP) prepared by the Connecticut Department of Transportation design units
  - Design site layout projects for Connecticut and Maine Departments of Transportation
  - Design roadway realignment and bridge replacement projects for the Connecticut and Maine Departments of Transportation
  - Prepare Connecticut Department of Energy and Environmental Protection permitting for roadway, bridge, and site improvement projects
  - Prepare local permitting for roadway, bridge and site improvement projects
  - Design Maintenance and Protection of Traffic plans for interstate roadway projects
  - Design site layout and erosion and sediment control plans for private sector clients
  - Design and rehabilitation of sewers for the Metropolitan District in Hartford
  - Represent clients at public information meetings and town inland wetlands commission meetings
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### CERTIFICATES & MEMBERSHIPS

- Connecticut Professional Engineer Licensure (PEN.30710) 2015
  - Maine Professional Engineer Licensure (No. 14130) 2015
  - Member, American Society of Civil Engineers 2010-Present
  - Member, Connecticut Society of Civil Engineers 2010-Present
  - Member, Inlands/Wetlands Commission, Town of Tolland, CT 2011-Present
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### COMPUTER SKILLS

- Bentley Microstation
- Bentley CulvertMaster
- Bentley StormCAD
- Bentley Inroads
- Bentley Projectwise
- HydroCAD
- Autodesk AutoCAD C3D
- AASHTO Estimator

# Jerry G. Salsgiver, P.E.

## OFFICE MANAGER / SENIOR ENGINEER

### PROFESSIONAL EXPERIENCE

Mr. Salsgiver is a senior engineer and office manager for the Hartford, CT office of Terracon. He has over 16 years of experience in the field of geotechnical engineering and has participated in a range of domestic and international projects. His experience includes managing projects involving site reconnaissance, subsurface explorations, and geotechnical design and construction for commercial and municipal buildings, roadways and bridges, wastewater treatment systems facilities, transmission lines, and liquefied natural gas (LNG) facilities. Select project experience is noted below.

### PROJECT EXPERIENCE

#### **PPL – Susquehanna/Roseland Overhead Transmission Project, Berwick to Bushkill, Pennsylvania**

Mr. Salsgiver served as the project manager on the geotechnical investigation phase of overhead transmission lines along more than 70 miles of Right-of-Way. Managed drilling services, field resistivity testing, laboratory testing, and provided design recommendations for more than 400 drilled shaft foundations. Provided oversight for 8 internal staff and 3 sub-consultants and, at its peak, approximately 40 people who were involved with the project. Field work was completed using up to 8 drilling rigs working 10-hour shifts. Follow up work included drilling in compliance with National Park Service permits within the Delaware Water Gap National Recreation Area. Construction services included construction monitoring of caisson foundation for PPL and remote access mini-pile foundation installation by Crux Foundation in Troy Meadows using helicopters for PSEG.

#### **PPL – Greater Scranton Reliability Project, Stanton to Avoca, and Scranton, Pennsylvania**

Mr. Salsgiver served as the project manager on three geotechnical investigation phases of overhead transmission lines along more than 20 miles of existing Right-of-Way. Managed drilling services, field resistivity testing, laboratory testing, and provided design recommendations for more than 100 tower foundations across undeveloped and residential areas.

#### **Northeast Utilities Middletown to Norwalk 345 kV Transmission Cable – Segments 1 and 2 Overhead Transmission Lines, Middletown to Milford, Connecticut**

Mr. Salsgiver served as the project manager for final design phase of a significant geotechnical investigation and design project for overhead transmission lines along 42 miles of Right-of-Way. Managed drilling services, field resistivity testing, laboratory testing, and provided design recommendations for more than 770 drilled shaft foundations. Field work was completed using up to 9 drilling rigs working 12-hour shifts, 6 days per week. Managed construction phase services including construction QA/QC and environmental monitoring for compliance with project-issued permits. Bonus incentives were received for completing the project ahead of schedule and without a time-loss injury.

#### **Northeast Utilities NEEWS/Springfield 115 and 345 kV Underground Transmission Cable Projects – Trenchless Consulting Services, Greater Hartford, Connecticut and Greater Springfield, Massachusetts**

Mr. Salsgiver served as the project manager for planning and design services for numerous potential trenchless railroad, highway, and watercourse crossings for proposed transmission line upgrades. Many of the trenchless crossing sites were located in heavily urbanized areas.

#### **Northeast Utilities NEEWS/Greater Springfield Reliability Project – Overhead Transmission Lines, North Bloomfield, Connecticut to Ludlow, Massachusetts**

Mr. Salsgiver served as the project manager for final design phase of a geotechnical investigation and design project for overhead transmission lines along approximately 40 miles of Right-of-Way. Managed drilling services, field resistivity testing, laboratory testing, and provided design recommendations for more than 450 drilled shaft foundations. Provided oversight for 8 internal staff and 4 subconsultants and, at its peak, approximately 35 people who were involved with the project. Field work was completed using up to 7 drilling rigs working 10-hour shifts.

### EDUCATION

Bachelor of Science, Civil Engineering, University of New Haven, 1999

### REGISTRATIONS

Professional Engineer: Connecticut

### CERTIFICATIONS

40-Hour OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER)

8-hour refresher training

Nuclear Gauge Certification

CPR/First Aid Certification

### AFFILIATIONS

American Society of Civil Engineers

### WORK HISTORY

Terracon Consultants, Inc., Office Manager/Senior Engineer, 2016 to Present; Senior Engineer/NE Drilling Operations Manager, 2015-2016; Office Manager/Senior Engineer, 2010-2012

Haley & Aldrich, Energy Sector-Vice President, 2012-2015; Senior Engineer/Project Manager, 1997-2009

Warren George, Inc., Project Manager, 2009-2010

**Northeast Utilities – Northern Pass DC Transmission Project near Pittsburg, New Hampshire**

Mr. Salsgiver served as the principal in charge of a subsurface exploration program for an approximately ten mile long underground section of the project including several potential trenchless crossings.

**National Grid – Clay DeWitt Rebuild and Reconductor Project – Greater Syracuse, New York**

Mr. Salsgiver served as the project manager on the geotechnical investigation phase of overhead transmission lines along more than 20 miles of existing Right-of-Way. Managed drilling services and laboratory testing for nearly 200 tower locations across undeveloped, commercial, industrial, and residential areas.

**National Grid/New Energy Alliance – Rhode Island Reliability Project – 345 kV Overhead Transmission Lines, North Smithfield, Rhode Island**

Mr. Salsgiver served as the principal in charge of the construction phase QA/QC for overhead transmission lines along 22 miles of Right-of-Way. Provided oversight for construction of more than 300 drilled shaft foundations. Field work was performed using up to 10 drilling rigs working 10-hour shifts.

**PSEG – Southern Reinforcement Project, Gloucester to Camden, New Jersey**

Mr. Salsgiver served as the principal in charge of a feasibility study, preliminary and final design, and construction services for seven trenchless crossings under railroad lines, highways, streams and lakes. Services also included a subsurface exploration program for trenchless crossings and overhead transmission lines.

**PSEG – Northeast Grid Reliability Project, Clifton to Roseland, New Jersey**

Mr. Salsgiver served as the principal in charge of construction services for installation of six temporary and permanent access bridges and excavated soil treatment, transportation, and disposal. Also provided remedial grouting of five caisson foundations with compromised soil conditions due to drilling activities.

**PSEG Long Island – Underground Transmission Project, Hicksville to Holbrook, New York**

Mr. Salsgiver served as the principal in charge for the feasibility study of numerous potential trenchless crossings along a planned underground transmission project.

**PSEG – UTGI, West Orange to Newark, New Jersey**

Mr. Salsgiver served as the principal in charge of a subsurface exploration program along approximately seven miles of planned underground transmission line installation.

**LNG Facility – Cabo Caucedo, Dominican Republic**

Mr. Salsgiver was the project engineer for geotechnical services during design and construction for a new LNG power plant, with numerous components including a 275-foot diameter LNG tank, several turbines, transformers, and operation buildings. Subsurface conditions consisted of limestone bedrock present at the ground surface. Key foundation design issues included evaluation of solution cavities in the limestone bedrock, and development of a grouting program to improve bedrock suitability for support of plant components on mat foundations and spread footings. Design work also included a site-specific seismic hazard investigation. Services during construction included observing removal of unsuitable materials from large solution cavities at the ground surface and subsequent placement of lean concrete fill, and observing grouting at over 75,000 linear feet of grout boreholes.

**LNG Facility – Ocean Cay, Bahamas**

Mr. Salsgiver served as the project engineer for a new Liquid Natural Gas (LNG) terminal, with numerous components including two LNG tanks and containment berms, several turbines, transformers, and operation buildings. Subsurface conditions consisted of relatively loose sand fill and natural sand overlying limestone bedrock. Key foundation issues included evaluation of the limestone bedrock for presence of large solution cavities. Recommended dynamic compaction to densify sand to permit use of spread footings for tanks and other structures. Preloading was recommended in areas where relatively light loads were anticipated. Work also included providing recommendations for design of drilled piers for breasting and mooring dolphins at the shipyard terminal, and for shore protection.

# Larry B. Page, LEP, CHMM, CPESC

## ENVIRONMENTAL PROJECT MANAGER

### PROFESSIONAL EXPERIENCE

Mr. Page is a project manager in the Hartford, Connecticut office of Terracon Consultants, Inc. He has more than 12 years of experience in the environmental consulting field. His experience includes the design, management and implementation of Phase I, II, and III Environmental Site Assessments (ESAs), soil and groundwater remediation projects, underground storage tank (UST) removals, Stormwater Pollution Prevention Plans (SWPPPs), Spill Prevention Control and Countermeasure Plans (SPCCs), environmental regulatory compliance assessments, National Environmental Policy Act Environmental Assessments, and indoor air quality and mold assessments for both state agencies and private clients throughout New England, New York, New Jersey, Pennsylvania, Maryland, and Ohio. Related project experience includes project cost estimate development, budget tracking, communication with clients and regulatory agencies, management of field professionals, critical analysis of environmental data, conceptual site modeling, contaminant fate and transport modeling, and report preparation. Mr. Page has also performed and prepared ecological risk assessments, hydrological pond surveys, potable well surveys, soil permeability testing at bulk petroleum storage terminals, soil vapor extraction pilot studies, state regulatory submittals, and activity and land use restriction documentation. Mr. Page has served as a resident environmental inspector for Connecticut Department of Transportation projects providing on-site support, sampling and management of impacted soils and groundwater, waste stockpiles areas, and water treatment systems.

### PROJECT EXPERIENCE

#### Phase I Environmental Site Assessments – Northeastern United States

Mr. Page performed more than 100 Phase I ESAs for large and small-scale sites developed for residential, commercial, and industrial use throughout New England, New York, New Jersey, and Pennsylvania. The assessments provided clients with a clear understanding of the potential and existing environmental conditions and liabilities during real estate due diligence, and were conducted consistent with the procedures included in ASTM E 1527-05 and ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

#### Automobile Sales and Service Dealership – Greenwich, Connecticut

Mr. Page served as project manager for the site investigation, remediation, and removal of hydraulic lifts and underground storage tanks at a multi-parcel automobile sales and service facility located in Greenwich, Connecticut. The facility is subject to the Connecticut Property Transfer Program. Mr. Page developed a strategy for site investigation and hydraulic lift/underground storage tank removals at the facility, which was undergoing extensive renovations and expansion at the time. Mr. Page worked closely with the client and contractor to complete the investigation and remove the subsurface equipment concurrent with the construction. Mr. Page successfully minimized impacts to the construction schedule, while completing the investigation and removals in accordance with prevailing standards and guidelines. Mr. Page prepared an Application for Groundwater Classification Change, which successfully reclassified the groundwater quality designation proximal to the site from Class GA to GB. He has prepared Remedial Action Plans and prepared documentation related to groundwater monitoring compliance and the implementation of Environmental Land Use Restrictions (ELUR).

#### Environmental Regulatory Compliance – Carlstadt, New Jersey

Mr. Page conducted an Environmental Compliance Audit of a large food manufacturing facility prior to acquisition by Terracon's client. The assessment provided the client with a clear understanding of the potential and existing environmental compliance issues and liabilities associated with the facility, focusing on a wide variety of environmental statutes and regulations. Following acquisition by the client, Mr. Page prepared a Stormwater Pollution Prevention Plan, completed National Pollutant Discharge Elimination System permit documentation, and prepared a SPCC for the facility.

#### Underground Storage Tanks Compliance Assistance – Strattanville, Pennsylvania

Mr. Page served as project manager assisting the client with compliance issues associated with a rest area and gasoline/diesel distribution facility located adjacent to an interstate highway. The client acquired the facility through foreclosure and was unaware of the status of the facility with respect to the Pennsylvania Department of Environmental Protection (PA DEP) underground storage tank regulations. Mr. Page met with the PA DEP Storage Tank Program staff and attorneys to review documentation pertinent to the site and negotiated postponement of an access order drafted to facilitate a state-led site investigation. Mr. Page coordinated the completion of tasks necessary for the access order withdrawal and opened lines of communication between the client and the regulatory agency.

### EDUCATION

Master of Science, Environmental Science – Anticipated 2017  
University of New Haven

Bachelor of Science, Earth Science, Geology - 2005 Southern Connecticut State University

### REGISTRATIONS

Licensed Environmental Professional: Connecticut (License No. 602)

### CERTIFICATIONS

Certified Hazardous Materials Manager (Credential No. 16557)

Certified Professional in Erosion and Sediment Control (Certification No. 6659)

OSHA Hazardous Waste Operations and Emergency Response (40 Hours)

OSHA Construction Safety (10 hours)

### AFFILIATIONS

Environmental Professionals of Connecticut

Geological Society of America

Geological Society of Connecticut

Academy of Hazardous Materials Managers – Connecticut Chapter

### WORK HISTORY

Terracon Consultants, Inc., Project Manager, 2013 to Present

Terracon Consultants, Inc., Senior Staff Geologist, 2010 to 2013

Triton Environmental, Inc., Field Services Manager/ Environmental Scientist, 2005-2010

Consulting Environmental Engineers, Inc., Staff Geologist, 2005



### **Erosion and Sediment Control – North Bloomfield, Connecticut and Agawam, Massachusetts**

Mr. Page served as the consultant responsible for the monitoring of compliance with erosion and sediment control at large-scale electrical substation expansion construction sites in Connecticut and Massachusetts. Mr. Page prepared the Sediment and Erosion Control Plan and completed monitoring that included weekly inspection of the site, as well as mandatory inspections following qualifying rain events. Mr. Page provided on-site consulting to assist the contractor to comply with site operator, state, and federal regulations during a stream diversion project.

### **Former Manufacturing Facility – Bridgeport, Connecticut**

Mr. Page provided environmental oversight at a former metal products manufacturing facility that was subject to the Connecticut Property Transfer Program. Project site was determined to have a solvent plume impacting site-soil and groundwater conditions and multiple locations with petroleum hydrocarbon impacted soil. Reviewed previous reports, developed environmental areas of concern, assisted in the planning and development of subsurface investigation work plans, Resource Conservation and Recovery Act (RCRA) closure activities, and a remedial action plan. Completed oversight and management of field investigation and remediation activities, analysis of analytical data and soil lithology, and the preparation of reports and submittals to the Connecticut Department of Energy and Environmental Protection (CT DEEP). Project outcome was the successful RCRA closure of the less-than-90-days hazardous waste storage areas, full characterization of the site, completion of investigation and remediation, completion of a groundwater monitoring plan, and the successful implementation of an ELUR.

### **Underground Storage Tank Removal and Soil Remediation – Mount Vernon, New York**

Mr. Page served as the project manager for removal of a leaking in Mount Vernon, New York. The work was performed on behalf of the property owner, who requested that disruptions to the tenant's operations be minimized to the extent practical. The project consisted of release reporting and spill response coordination with the New York Department of Environmental Conservation and the Westchester County Department of Health. Terracon worked with the site contractor to develop and implement a plan to remove the tank from beneath the indoor loading dock floor located on the first floor of the building. The project involved removing multiple concrete slabs, underpinning of the building foundation, installation of shoring beneath the exterior wall of the building due to shallow saturated soils, removal of the tank in sections due to space restriction, and removal of petroleum impacted soils and groundwater using a vacuum truck.

### **Underground Storage Tanks Compliance Assistance – Strattanville, Pennsylvania**

Mr. Page served as project manager assisting the client with compliance issues associated with a rest area and gasoline/diesel distribution facility located adjacent to an interstate highway. The client acquired the facility through foreclosure and was unaware of the status of the facility with respect to the Pennsylvania Department of Environmental Protection (PA DEP) underground storage tank regulations. Mr. Page met with the PA DEP Storage Tank Program staff and attorneys to review documentation pertinent to the site and negotiated postponement of an access order drafted to facilitate a state-led site investigation. Mr. Page coordinated the completion of tasks necessary for the access order withdrawal and opened lines of communication between the client and the regulatory agency.

### **Food Manufacturing Facilities – Pennsylvania and Ohio**

Mr. Page conducted Phase I ESA and environmental compliance inspection for two plants operated by a food manufacturing client. Following the inspection, Mr. Page prepared a SWPPP, SPCC, and an Oil Spill Contingency Plan for each of the facilities. The plans were streamlined to be used in conjunction with each other and as a template for the client's other facilities located throughout the United States. The plans were designed to be easily implemented and used as a reference for personnel ranging from production staff to management.

### **Spill Response, Automobile Dealership – Vernon, Connecticut**

Mr. Page served as the on-site coordinator for spill response activities conducted at an automobile sales and service facility in Vernon, Connecticut. The client's site contractor encountered petroleum impacted soil in a drainage swale during construction of a building addition. Mr. Page coordinated on-site soil remediation and associated dewatering activities, provided soil screening, collected confirmatory soil samples, and facilitated off-site soil disposal. Mr. Page provided a spill response summary report for submission to the CT DEEP Emergency Response and Spill Prevention Unit.

### **Stormwater Compliance Monitoring – Madison, Connecticut**

Mr. Page served as the project manager and soil erosion and sediment control professional responsible for the monitoring of compliance with the Connecticut General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (General Permit) and project SWPPP at a large-scale, state-funded construction site. Following commencement of the project, Mr. Page completed an erosion and sediment control installation inspection report to evaluate installed soil erosion and sediment controls relative to the project specifications and SWPPP. Mr. Page completed weekly inspections throughout the course of the project to review existing site conditions, temporary sedimentation and erosion control measures, and assess the progress of stormwater management. Mr. Page prepared weekly reports for the owner's representative discussing deviations from the SWPPP and General Permit, and to provide recommendations to achieve compliance and improve stormwater quality at the site.

### **Financial Institutions – Northeastern United States**

Mr. Page serves as the regional project manager coordinating proactive and reactive indoor air quality and moisture intrusion evaluations in multi-story commercial office buildings. The evaluations range in scope from limited to comprehensive and generally consist of heating, ventilation, and air conditioning (HVAC) system inspections, ventilation and particulate monitoring, indoor air sampling, and fungal growth identification and bioaerosol analyses. Mr. Page also supports the development of remedial action plans, as necessary, to sanitize HVAC systems and interior surfaces, and improve indoor air quality.



# DAVID LAIUPPA, CSS



SENIOR PLANNER | ASSOCIATE

## OVERVIEW

Mr. Laiuppa offers a variety of experience in wetland delineation, environmental science, environmental planning, construction oversight and inspection, and Geographic Information Systems (GIS). He is very familiar with environmental documentation requirements of federal and state environmental policy acts, the regulatory framework for environmental permitting, and has solid experience with agency coordination at the local, state, and federal levels. He also has experience in environmental monitoring of large scale construction operations. His status as a Certified Soil Scientist (CSS) uniquely qualifies him to describe both upland and wetland soil types.

### ENVIRONMENTAL ANALYSIS AND PERMITTING

Mr. Laiuppa has particular expertise in using GIS to inventory and evaluate many forms of data, including natural resource and land use data. He is also skilled at conducting wetland functional assessments, field identification of plants and wildlife, and wildlife habitat identification/assessments. Additionally, using Army Corps of Engineers and state defined methodologies, he has delineated inland and tidal wetlands in Connecticut and Virginia and inland wetlands in Massachusetts and Vermont. He has contributed to the preparation of a number of environmental permit applications, including local and state inland wetlands, stormwater, and coastal zone applications, and federal Environmental Protection Agency No Discharge Area (NDA) applications. Mr. Laiuppa has conducted air quality impact analyses for several transit oriented development projects.

### ENVIRONMENTAL DOCUMENTATION AND MONITORING

Mr. Laiuppa has participated in data collection, impact analysis, and mitigation evaluation for many environmental impact statements and environmental assessments pursuant to the National Environmental Policy Act (NEPA) and Connecticut Environmental Policy Act (CEPA), conforming to the regulations and guidelines of agencies including Federal Highway Administration (FHWA), Federal Transit Administration (FTA), and the Federal Aviation Administration (FAA). He has also served as a Connecticut Department of Energy and Environmental Protection (DEEP) liaison and environmental field inspector for the construction of a Busway transit system. Additionally, Mr. Laiuppa has served as the lead field environmental inspector in charge of turbidity monitoring, invasive species removal, mitigation plantings, and listed species habitat enhancement for a multi-state, rail enhancement project.

### WETLAND DELINEATION AND DOCUMENTATION

Mr. Laiuppa is a Certified Soil Scientist (CSS), qualified to delineate wetlands in Connecticut, with over 10 years of state and federal wetland delineation experience. He specializes in field data collection, GPS technology, and GIS mapping/analysis for wetland investigations and environmental permitting. His skills with plant identification are tapped for wetland function-value assessments, invasive species surveys, and threatened and endangered species surveys. His field and GIS products reflect accurate field conditions and he has provided testimony relative to environmental conditions for various purposes. His field data collection experience spans Connecticut, Massachusetts, Vermont, Virginia, Rhode Island and New Hampshire.

### EDUCATION

- Certified Erosion, Sediment and Storm Water Inspector, 2012
- Air Quality Analyses Training Certification, 2009
- Soil Scientist Certification, 2007
- Corps Wetland Delineation Training Certification, 2004
- Geographic Information Systems (GIS) Certification, 1999
- B.S. Natural Resource Management and Engineering, 1997

### PROFESSIONAL AFFILIATIONS

- Connecticut Invasive Plant Working Group (CIPWG)
- EnviroCert International
- Connecticut GIS Users Group (CTGIS)
- Northeast ARC Users
- Connecticut Association of Wetland Scientists (CAWS)
- Society of Soil Scientists of Southern New England

### YEARS EXPERIENCE

- 16 Years with firm
- 20 Years in industry





## PROJECT EXPERIENCE

### *Wetland Delineations*

#### **EVERSOURCE WETLAND AND LISTED SPECIES DELINEATIONS | SOUTH WINDSOR, CT | 2016-2017**

Mr. Laiuppa provided wetland identification and delineation services for a high-power transmission line pole replacement project for Eversource. In addition to wetland services Mr. Laiuppa assisted Eversource in their approach to access the poles needing to be replaced with minimal impact to sensitive environmental resources. This included special considerations for several habitat areas of special concern within the project limits. Delineation efforts for this project include flagging of wetland boundaries, performing transects, evaluating functional values of wetland systems, and preparation of a comprehensive report detailing findings.

#### **MDC BLOOMFIELD AND WINDSOR SANITARY SEWER EASEMENT IMPROVEMENTS PROJECT | CT | 2015 - 2016**

Mr. Laiuppa lead a team of wetland scientists in a major effort to delineate and survey inland wetlands and watercourses that may be impacted by work related to the improvements to sanitary sewer lines that span multiple towns in north central Connecticut. Delineation efforts for this project include flagging of wetland boundaries, performing transects, evaluating functional values of wetland systems, and preparation of a comprehensive report detailing findings.

#### **WATERBURY-OXFORD AIRPORT RECONSTRUCTION OF RUNWAY 18-36 | CT | 2014 - 2016**

Mr. Laiuppa evaluated and field delineated inland wetlands and watercourses that may be impacted by work related to the reconstruction, raising and re-grading of runway 18-36 at the Waterbury-Oxford Airport in the Town of Oxford, Connecticut. Delineation efforts for this project include flagging of wetland boundaries, performing transects, evaluating functional values of wetland systems, and preparation of a comprehensive report detailing findings.

#### **MDC RESERVOIR 3 REHABILITATION PROJECT | CT | 2014 - 2016**

Mr. Laiuppa evaluated and field delineated inland wetlands and watercourses that may be impacted by work related to the Reservoir Number 3 rehabilitation project, part of the MDC Capital Improvement Plan in the Town of West Hartford, Connecticut. Delineation efforts for this project include flagging of wetland boundaries, performing transects, evaluating functional values of wetland systems, and preparation of a comprehensive report detailing findings.

#### **MDC SOUTH HARTFORD CONVEYANCE AND STORAGE TUNNEL | CT | 2013-2016**

Mr. Laiuppa evaluated and field delineated inland wetlands and watercourses at various locations within the Hartford Metro area. Delineation efforts for this project include flagging of wetland boundaries, performing transects, evaluating functional values of wetland systems, and preparation of a comprehensive report detailing findings.

### *Environmental Analysis*

#### **CONNECTICUT AIRPORT AUTHORITY – OBSTRUCTION REMOVAL & LIGHTING PROJECT | CT | 2015 - 2016**

Mr. Laiuppa had a principal role in an effort to evaluate and document habitats and ecosystems surrounding several airports throughout the state of Connecticut in an effort to identify potential impact areas associated with FAA required obstruction removal and lighting project initiatives. Location efforts included detailed analyses of the study corridor using GIS data, aerial interpretation, and extensive ground truthing. All observations of habitat types and potential impacts were documented in a comprehensive report.

#### **NEW HAVEN-HARTFORD-SPRINGFIELD PROGRAM MANAGEMENT | CT, MA | 2011-ONGOING**

Mr. Laiuppa was the lead field environmental scientist in an effort to locate and observe potential vernal pools along this multi-state transportation corridor. Location efforts included detailed analyses of the study corridor





using GIS data, aerial interpretation, and extensive ground truthing. Observations of the potential pools included collection and identification of macro and micro fauna and flora. All observations and potential pool locations were documented in a comprehensive report.

### ***Environmental Documentation and Monitoring***

#### **RECONSTRUCTION OF I-95 OVER WEST RIVER | WEST HAVEN & NEW HAVEN, CT | 2016 - ONGOING**

Mr. Laiuppa served as the lead field technician in an effort to delineate wetlands, invasive species, and native tidal plant species in an area to be constructed as a wetland mitigation site. Additionally, Mr. Laiuppa lead a team as the principal designer of the wetland mitigation site. Mr. Laiuppa attended several meetings and lead field walks with regulators in an effort to coordinate efforts between the design team and state and federal agencies.

#### **NEW HAVEN-HARTFORD-SPRINGFIELD CONSTRUCTION | CT, MA | 2015 - ONGOING**

Mr. Laiuppa served as the lead field environmental inspector in charge of turbidity monitoring, invasive species removal, mitigation plantings, and listed species habitat enhancement during the construction of this multi-state, rail enhancement project.

#### **NEW BRITAIN-HARTFORD BUSWAY (CTFASTRAK) | CENTRAL CT | 2011- 2015**

Mr. Laiuppa was selected to serve as the Connecticut Department of Energy and Environmental Protection (DEEP) liaison and environmental field inspector for the construction of this Busway transit system. Mr. Laiuppa served in this role on a full-time basis with as needed support from others. His duties, which are designed to ensure that the project complies to all regulatory environmental permits, include: field inspections of construction activities and procedures, rapid response to unforeseen construction related issues, technical guidance for design, construction, and Connecticut Department of Transportation (CTDOT) personnel, design and construction advisement, coordination with DEEP regarding project related activities, environmental permit and plate document control, and collection of monthly environmental inspection reports from multiple contractors.

### ***Environmental Permitting***

#### **WATERBURY-OXFORD AIRPORT RECONSTRUCTION OF RUNWAY 18-36 | CT | 2016 - ONGOING**

Mr. Laiuppa coordinated with CT DEEP in preparing permit applications for the proposed reconstruction, raising and re-grading of runway 18-36 at the Waterbury-Oxford Airport in the Town of Oxford, Connecticut. Mr. Laiuppa was part of a team that wrote and submitted the required Stormwater Construction Permit to DEEP.

#### **NEW HAVEN-HARTFORD-SPRINGFIELD PROGRAM MANAGEMENT | CT, MA | 2011-ONGOING**

Mr. Laiuppa was heavily involved with agency coordination and consultation and environmental permit preparations for this this multi-state transportation corridor.

#### **CROSBY BROOK BMPS – ENVIRONMENTAL PERMIT ASSESSMENT, BRATTLEBORO | VT | 2012**

Mr. Laiuppa was involved with defining the environmental permitting requirements for proposed BMPs for the treatment of stormwater within the watershed of Crosby Brook in Brattleboro, Vermont. He field identified the floodplains, wetlands, and stormwater culverts within the project area in order to have these features incorporated into project mapping for permitting purposes.





# JOSHUA WEISS



ENVIRONMENTAL PLANNER

## OVERVIEW

Mr. Weiss offers a breadth of experience in environmental planning, environmental/wetland documentation, geospatial science, and Geographic Information Systems (GIS). Mr. Weiss is highly experienced in many aspects of modern planning and has been part of teams working on complex multi-faceted planning projects across the New England Region.

His specialty lies within spatial analysis applications not limited to infrastructure improvements, Stormwater permitting and inspection, environmental analysis/documentation, transportation and community planning, and a variety of data collection efforts. Mr. Weiss is experienced with agency coordination at the local, state, and federal levels for environmental permitting and coordination before and during construction. He has prepared numerous environmental permit applications, environmental reports, wetland investigations, and stormwater permit applications at the state and local levels. Mr. Weiss also provides state and federal listed bat services and mitigation utilizing acoustic bat survey and data processing.

Mr. Weiss offers a variety of experience in wetland and soil sciences. As a professional soil scientist, Mr. Weiss is highly skilled at describing both upland and wetland soil profiles, delineating wetland resources, inventorying seasonal pools, designing mitigation sites, and identifying both native and non-native vegetation species. In addition, Mr. Weiss also has significant project experience in construction activities including stormwater inspection, mitigation site inspections, and turbidity monitoring. Mr. Weiss has proven experience with state of the art erosion and sedimentation (E&S) control systems and avoidance and minimization best management practices (BMPs). His geo-spatial background enhances his ability to make solid decisions from engineering plans and drawings while in the field.

Currently, Mr. Weiss is working in a variety of projects involving wetland delineations, turbidity monitoring, stormwater site inspections, ecological-risk assessments, listed species habitat identification, wetland mitigation site inspections, and environmental permitting and documentation. Mr. Weiss is an ethically sound individual with a solid educational background providing only the highest quality professional services. Representative projects follow:

## EDUCATION

- B.A., 2008, Geography  
University of Connecticut
- Regional Soil Science Certificate  
Program, 2016 - University of  
Massachusetts

## PROFESSIONAL CERTIFICATIONS

- Professional Soil Scientist (PSS)
- Qualified Compliance Inspector of  
Stormwater (QCIS), 2015
- Qualified Preparer of Storm  
Water Pollution Prevention Plans  
(QPSPPP), 2015
- ESRI Certificate of Completion for  
ArcGIS 3D Analyst 2008
- PADI Open Water Certified 2007
- CT Safe Boating Certification

## PROFESSIONAL AFFILIATIONS

- Member CAWS
- Member SSSSNE
- Northeast ARC Users

## YEARS EXPERIENCE

- 8 Years with firm
- 9 Years in industry

## TECHNICAL CAPABILITIES

- ESRI ArcGIS Suite 10.5
- Microsoft Office Suite
- Microsoft Share Point  
Applications
- SonoBat 3.2.1





## EXAMPLE PROJECT EXPERIENCE

### **NHHS HIGH SPEED RAIL PROGRAM | NEW HAVEN, CT TO SPRINGFIELD, MA | 2008-ONGOING**

Mr. Weiss has been utilized throughout this project in many ways, most notably with GIS, environmental permitting, and stormwater inspection. Mr. Weiss is currently conducting turbidity monitoring, and invasive species control for the areas actively under construction. Mr. Weiss' other roles included wetland mitigation site investigations, listed species surveys, and spatial analysis. Mr. Weiss has been involved with this project through various stages of permitting since 2008.

### **TOWN OF ENFIELD WATER POLLUTION CONTROL AUTHORITY | ENFIELD, CT | 2016-2017**

Mr. Weiss coordinated with local engineers, the Town of Enfield and the CTDEEP in preparing permit applications for proposed improvements at the Town of Enfield's Water Pollution Control Facility. Mr. Weiss worked on this project from wetland delineations through to permit submittals, ultimately resulting in the necessary approvals to proceed with the construction. Mr. Weiss's efforts ensured a smooth and timely process for the client to achieve their objective.

### **EVERSOURCE WETLAND AND LISTED SPECIES DELINEATIONS | SOUTH WINDSOR, CT | 2016-2017**

Mr. Weiss provided wetland identification and delineation services for a high-power transmission line pole replacement project for Eversource. In addition to wetland services Mr. Weiss assisted Eversource in their approach to access the poles needing to be replaced with minimal impact to sensitive environmental resources. This included special considerations for several habitat areas of special concern within the project limits. During construction, Mr. Weiss was on-site to monitor the approach and negotiate any issues that might arise regarding the listed species on-site.

### **WATERBURY ACTIVE TRANSPORTATION AND ECONOMIC RESURGENCE (WATER) | WATERBURY, CT | 2015-2016**

Mr. Weiss coordinated and successfully submitted a stormwater permit application to CTDEEP for the complete streets plan on Freight Street in Waterbury, CT. Mr. Weiss worked with both the City of Waterbury and the Engineer to develop the materials necessary to allow the first phase of the WATER project to begin. Mr. Weiss also coordinated with CTDEEP regarding specific listed species obstacles minimizing potential impacts to both people and the listed species.

### **METROPOLITAN DISTRICT WETLAND DELINEATION | BLOOMFIELD AND WINDSOR, CT | 2015-2016**

As part of a team of soil scientists, Mr. Weiss delineated approximately 35 linear miles of existing sewer line in the towns of Bloomfield and Windsor CT. Mr. Weiss added value to multiple project aspects such as the wetland delineations, global positioning location of the wetland flags, data management, project communication, and wetland documentation. Approximately 2300 wetland flags were identified and 320 wetland flag lines were delineated over a 10-week period. Mr. Weiss also conducted habitat surveys and evaluations for species listed in the Connecticut Endangered Species Act.

### **SOUTH HARTFORD CONVEYANCE TUNNEL, HARTFORD CT | 2014 - ONGOING**

The Metropolitan District Commission (MDC) plans to install an 18' diameter conveyance tunnel under Hartford to reduce waste water overflow into the Connecticut River. Mr. Weiss has played a large role in the wetland permitting required for the potential success of the project. Mr. Weiss was involved with the mitigation site design and plantings plan as well as invasive species removal plans for the project. Currently Mr. Weiss is providing mitigation site inspections for the wetland planting and Common Reed control consultation.



**POMFRET BRIDGE 00990 OVER WAPPOQUIA BROOK | POMFRET, CT | 2014-2015**

Mr. Weiss assisted with a wetland delineation and soil scientist report in the general vicinity of Bridge Number 00990 over the Wappoquia Brook in Pomfret, CT. Mr. Weiss conducted two Army Corps of Engineers wetland determination forms and Army Corps of Engineers Function and Value Assessment forms. Following the delineation report, Mr. Weiss aided in the creation of mitigation and planting plans for proposed wetland impacts to occur on the site. Mr. Weiss was instrumental in providing valuable field knowledge to the team. On-sight assessments will continue throughout the next stage of the bridge replacement.

**UNITED ILLUMINATING, BRIDGEPORT CT | 2014**

The land use of the former land fill at Seaside Park in Bridgeport, CT has been transformed into a green solar power generator for the town, Mr. Weiss assisted with listed species avian surveys and wetland delineation on site. Mr. Weiss also contributed to the completion of the environmental permits for the projects including coordination with The Army Corps and the State of Connecticut. Currently the site has been redeveloped and is actively producing electricity for the community.

**CTDOT SIGNAL RETIMING AND HORIZONTAL CURVE PROJECT, CT | 2014-2016**

Mr. Weiss developed and applied a new innovative approach to calculating the yellow times at over 800 state intersections. The task was to calculate the turning movements of more than 800 intersections and create graphics to be used in identifying conflict points and adjusting yellow times in traffic light sequences. Mr. Weiss applied his exceptional experience in geographic information systems to develop a way to quickly and accurately calculate the distances of movements as they relate to the potential conflict point within the intersection.

As part of the horizontal curve team, Mr. Weiss managed the field task of collecting data which determined the placement of advanced warning signs on steep curves throughout several Connecticut districts.



## **Tab 2**















## **Tab 3 and 4**



## MEMORANDUM

TO: Will Porter, Depcom Power  
Nick Detelich, Depcom Power

FROM: Raymond Culver, Kleinfelder

DATE : June 15, 2017

SUBJECT: CT30 – Fusion Solar Site Conditions

CC: Scott Williams, DESRI  
Albert Bisacky, Kleinfelder  
Elizabeth Bissonnette, Kleinfelder

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Raymond Culver, Jason Boileau (Kleinfelder) and Dylan Rasmussen (Depcom) walked the CT30 – Fusion Solar project site on 6/8 to review sediment basins, sediment traps and diversion ditches for comparison against the most currently submitted SWPCP documents. The dimensions of these features were measured and recorded, ground conditions were noted, and photographs taken.

Concurrent to the site inspection, aerial survey dated 6/10/2017 was conducted by Depcom Power and provided to Kleinfelder to create as-builts of onsite sediment traps, basins and diversion ditches. The survey was used to determine if the constructed conditions match the design intent including location and sizing of these erosion and sediment control features.

As-built drawings depicting the current site conditions compared to the conditions used during design are included in Attachment 2. Plans sheets 1 through 3 display sediment traps, basins and diversion ditches with their corresponding drainage areas used for design, against their as-constructed dimensions, locations and drainage areas. The as-constructed location, extent and dimensions of diversion ditches that were not captured by the aerial survey were noted. Plans sheets 4 through 6 display the expected post-construction site grading used for design, against the surveyed post-construction site grading.





Analysis of the 6/10/2017 survey found that the site topography generally matches the anticipated conditions based on pre-clearing site data, however there are some discrepancies that impact the drainage areas of the traps and basins. Some traps and basins are currently receiving runoff from a larger drainage area than designed for and some receive smaller areas. A summary of the traps and basins, and the designed and as-constructed drainage areas, are included in Attachment 3.

SB-3 has more area tributary to it than had been anticipated, however the as-built conditions of this basin are larger than designed. This tributary area increase is due to the access road elevation above existing ground and the drainage patterns were confirmed during a site visit on 6/9/2017. The ground survey does not capture this subtly in patterns. As-constructed this basin accommodates the additional contributing drainage area and functions in a hydraulically similar way to the designed configuration.

**Corrective Actions:**

Kleinfelder recommends the following be implemented to follow the SWPCP.

- Complete stabilization of all basins and traps with straw matting. This has already occurred on SB-3, ST-11 and ST-13.
- Complete construction of all diversion ditches in the location and as detailed in the SWPCP, except as noted below.
- Sediment traps ST-1, ST-3, ST-6, ST-8, ST-10, ST-13 and ST15 are receiving drainage from an area greater than the maximum allowed of 5 acres. Modifications to diversion ditches can be made to reduce the drainage areas to allowable conditions in each case. These diversion ditch modifications are shown on Attachment 2.
- The ditch and area modifications will require a capacity increase in Sediment Trap ST-1 as noted on Attachment 3.
- The areas downstream of the sediment traps and basins need to be stabilized. Straw matting or temporary seeding could be implemented in locations where construction has ceased. Alternate stabilization methods may need to be considered if construction in these areas is ongoing.

Please contact me to discuss this topic further or if you require any additional information.

# STORMWATER CONSTRUCTION SITE INSPECTION REPORT PLAN IMPLEMENTATION INSPECTION

<b>General Information</b>	
<b>Project Name:</b> Fusion Solar Center	<b>Date &amp; Time of Inspection:</b> Friday, June 9 <sup>th</sup> from 9am to 4pm
<b>Project Location:</b> 111 Potash Rd, Sprague, CT 06330	<b>Inspector(s) Name/Title/Contact Information:</b>
<b>Phase of Construction:</b> Installation of Infrastructure	David Laiuppa (FHI) – CSS, CESSWI – (860) 243-2456 Joshua Weiss (FHI) – PSS, QCIS, QPSWPPP – (860) 256-8841
<b>Forman or Site Contact at Time of Inspection:</b> Nick Detelich (DEPCOM Power)	<b>Plan Implementation Inspection:</b> <input checked="" type="checkbox"/> Second <input type="checkbox"/> Third
<b>Plan/Drawing Version/Date:</b> 05/03/2017 Construction Plans	

<b>Weather &amp; Site Discharge Information</b>	
<b>Has there been a recent storm event?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Storm duration (hrs):</b> 15 <b>Approximate amount of precipitation (in):</b> 0.70
<b>If yes, provide:</b> Storm start date & time: 6/6/2017	<input type="checkbox"/> N/A
<b>Weather at time of this inspection.</b> Temperature: 78° F <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds	<input type="checkbox"/> Other:
<b>Have any discharges from the site occurred since the last inspection?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Unknown
<b>If yes, describe:</b> Evidence of discharge at several locations around the perimeter of project (South of ST-12, Southeast of ST-13, South of SB-3, West of ST-5, West of ST-6)	
<b>Are there any discharges from the site at the time of inspection?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Unknown
<b>If yes, describe:</b> Discharge of visually apparent non-turbid water at several locations around the perimeter of project (Southeast of ST-13, South of SB-3)	
<b>Was turbidity monitoring conducted during this inspection?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

### Site-specific BMPs (Plan Implementation)

	BMP / Site Reference	BMP Installed	Corrective Action Required	BMP Consistent with Plans	BMP Conformance with Permit	BMP Conformance with Guidelines	General Field Notes	Recommended Corrective Action (if Required)
1	SB-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> <li>Larger stones and larger woody debris were removed from berms</li> <li>Underground outlet pipe to scour hole at south end crushed &amp; broken</li> <li>Rock crushing operation contributing debris to northern forebay Construction of diversion ditch at south end not completed (in-progress at time of inspection)</li> </ul>	<ul style="list-style-type: none"> <li>Replace pipe to scour hole at southern end</li> <li>Move rock crushing operation away from SB &amp; clean out debris</li> <li>Complete construction of diversion ditch</li> </ul>
2	SB-2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Larger stones and larger woody debris were removed from berms</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
3	SB-3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Footprint of basin does not match footprint on latest plans</li> <li>Series of rock check dams/ pools is not on plans</li> </ul>	<ul style="list-style-type: none"> <li>Plans need to be updated to reflect most current site conditions</li> </ul>
4	ST-1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>Good Inlet Protection</li> <li>Temporary Diversion Ditch (TDD) 1A and 1B observed</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
5	ST-2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>Recently maintained – sediment cleaned out</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
6	ST-3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>Recently maintained – sediment cleaned out</li> <li>TDD 3A observed, 3B not defined</li> </ul>	<ul style="list-style-type: none"> <li>Redefine TDD 3B</li> </ul>
7	ST-4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>Good Inlet Protection</li> <li>Evidence of discharge near spillway</li> <li>TDD 4A observed</li> </ul>	<ul style="list-style-type: none"> <li>Continue monitoring for turbidity</li> </ul>

**Site-specific BMPs (Plan Implementation)**

	BMP / Site Reference	BMP Installed	Corrective Action Required	BMP Consistent with Plans	BMP Conformant with Permit	BMP Conformant with Guidelines	Notes	Recommended Corrective Action
8	ST-5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>Evidence of discharge near spillway</li> <li>TDD 5A observed</li> </ul>	<ul style="list-style-type: none"> <li>Continue monitoring for turbidity</li> </ul>
9	ST-6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>Requires periodic inspection of silt fence on outlet side</li> <li>TDD 6A Observed, 6B under construction at time of inspection</li> </ul>	<ul style="list-style-type: none"> <li>Finish construction of 6B</li> </ul>
10	ST-7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>TDD 7A on northwest side does not appear to be properly pitched</li> <li>TDD 7B under construction at time of inspection</li> <li>Evidence of discharge near spillway</li> </ul>	<ul style="list-style-type: none"> <li>Confirm &amp; adjust (as needed) the pitch of diversion ditches</li> <li>Continue monitoring for turbidity</li> </ul>
11	ST-8	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>TDD 8A not well defined</li> <li>Evidence of discharge near spillway</li> </ul>	<ul style="list-style-type: none"> <li>Continue monitoring for turbidity</li> <li>Redefine TDD 8A, make sure pitched to ST 8</li> <li>Improve inlet protection (armoring)</li> </ul>
12	ST-9	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>TDD 9A not well defined near ST 9</li> </ul>	<ul style="list-style-type: none"> <li>Redefine TDD 9A near ST 9</li> </ul>
13	ST-10	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>TDD 10A not well defined</li> </ul>	<ul style="list-style-type: none"> <li>Refresh TDD 10A</li> </ul>
14	ST-11	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Well compacted walls</li> <li>Large rocks observed at inlet</li> </ul>	<ul style="list-style-type: none"> <li>Replace large rocks at inlet with smaller stone</li> </ul>
15	ST-12	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Evidence of discharge near spillway</li> <li>Signs of discharge in field downslope from spillway</li> <li>Recent maintenance completed (sediment removal)</li> </ul>	<ul style="list-style-type: none"> <li>Continue monitoring for turbidity</li> <li>Ensure BMPs at spillway are properly functioning/installed (toe in silt fence)</li> <li>Reduce vehicle traffic in hay field</li> </ul>

### Site-specific BMPs (Plan Implementation)

	BMP / Site Reference	BMP Installed	Corrective Action Required	BMP Consistent with Plans	BMP Concomitant with Permit	BMP Concomitant with Guidelines	Notes	Recommended Corrective Action
16	ST-13	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> <li>Larger stones and larger woody debris were removed from berms</li> <li>Evidence of discharge near spillway</li> <li>Signs of discharge in field downslope from spillway</li> <li>TDD 13A not well defined</li> <li>Well compacted walls</li> </ul>	<ul style="list-style-type: none"> <li>Continue monitoring for turbidity</li> <li>Ensure BMPs at spillway are properly functioning/installed (toe in silt fence)</li> <li>Refresh TDD 13A</li> </ul>
17	ST-14	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Larger stones and larger woody debris were removed from berms</li> <li>TDD 14A was observed</li> <li>Well compacted walls</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
18	ST-15	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> <li>Larger stones and larger woody debris were removed from berms</li> <li>TDD 16A splits into both ST-15 and ST-16</li> </ul>	<ul style="list-style-type: none"> <li>Fill ditch 16A that forks south into ST15</li> </ul>
19	ST-16	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> <li>Larger stones and larger woody debris were removed from berms</li> <li>All walls compacted except for eastern one near fence (hard to access)</li> <li>Noted high water marks</li> </ul>	<ul style="list-style-type: none"> <li>Ensure proper compaction at eastern end of trap</li> </ul>
20	Site Entrance / Anti-tracking Pad	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Functioning properly</li> </ul>	<ul style="list-style-type: none"> <li>Continue ongoing maintenance</li> </ul>
21	Access Road (from entrance to trailer)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Evidence of disturbance adjacent to road on the edge of the hay field (ruts)</li> </ul>	<ul style="list-style-type: none"> <li>Keep traffic on road</li> </ul>
22	Limit of Disturbance (perimeter) chain link Fence	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Fence not fully installed at west &amp; north ends of site</li> </ul>	<ul style="list-style-type: none"> <li>Complete installation of fence</li> </ul>
23	Limit of Disturbance (perimeter) Woodchip Berm	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Functioning properly</li> </ul>	<ul style="list-style-type: none"> <li>Continue maintenance of berm</li> </ul>

### Site-specific BMPs (Plan Implementation)

	BMP / Site Reference	BMP Installed	Corrective Action Required	BMP Consistent with Plans	BMP Conformant with Permit	BMP Conformant with Guidelines	Notes	Recommended Corrective Action
24	E&S Silt Fence (exterior fence at Woodchip Berm)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Evidence of several breaches (which have been repaired)</li> </ul>	<ul style="list-style-type: none"> <li>Continue maintenance of fence</li> </ul>
24	E&S Silt Fence (interior fence)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> <li>Evidence of several breaches (which have been repaired)</li> <li>Several locations were observed where the fence was not properly toed in (W of ST-9 &amp; W of ST-10)</li> </ul>	<ul style="list-style-type: none"> <li>Continue maintenance of fence</li> </ul>
25	Diversion Ditch	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Ditches not installed at all locations</li> <li>Ditches not matted (per plan)</li> </ul>	<ul style="list-style-type: none"> <li>Finish installing ditches as soon as possible</li> <li>Mat ditches (per plan)</li> </ul>
26	Rumble Rack	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Functioning properly</li> </ul>	<ul style="list-style-type: none"> <li>Clean (as needed)</li> <li>Keep exiting traffic on rack (when needed)</li> </ul>
27	Sequential Basins/ Stone Traps (S of SB-3)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>These basins/traps (S of SB-3) are not on the plans</li> <li>Water is leaving the southern-most basin and exiting the site</li> <li>Use of hay bales in structure at south end may not be effective</li> </ul>	<ul style="list-style-type: none"> <li>Confirm that basins are built to meet engineered design</li> <li>Add basins to most current plans</li> <li>Maintain and replace silt fence and straw bales as needed to reduce velocity of discharge</li> </ul>
28	Straw Matting	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Some of the matting (on berms of sediment traps) are not properly pinned and are becoming dislodged by wind</li> </ul>	<ul style="list-style-type: none"> <li>Ensure that all applied matting is properly pinned down</li> </ul>
29	Other	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>

### Overall Site Issues (Plan Implementation)

	BMP/Activity	Implemented?	Maintenance Required	BMP/Activity Consistent with Plans	BMP/Activity Conformant with Permit	BMP/Activity Conformant with Guidelines	Notes	Recommended Corrective Action
<b>A</b>	All inactive slopes and disturbed areas have been stabilized.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> <li>A seed mix has been applied. Growth is still very sparse</li> <li>Inactive disturbed areas beyond perimeter fence recently seeded but not stable yet</li> </ul>	<ul style="list-style-type: none"> <li>Minimize disturbance where possible</li> </ul>
<b>B</b>	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Evidence of repeat failures to silt fence in locations noted above must be continually maintained</li> </ul>	<ul style="list-style-type: none"> <li>Continue repairs/maintenance of silt fences</li> </ul>
<b>C</b>	Are all sanitary waste receptacles placed in secondary containment and free of leaks?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No observed containment but no apparent leaks</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
<b>D</b>	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Several sections of silt fence not properly toed in (see location specific notes above)</li> </ul>	<ul style="list-style-type: none"> <li>Continue repairs/maintenance of silt fences</li> </ul>
<b>E</b>	Are discharge points and receiving waters free of any sediment deposits?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Anti-tracking pad free of sediment</li> <li>Sediment observed beyond fence south of ST-12, west of ST-6, and south of SB-3</li> </ul>	<ul style="list-style-type: none"> <li>Continue repairs/maintenance of silt fences</li> </ul>
<b>F</b>	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No storm drains</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
<b>G</b>	Is the construction exit preventing sediment from being tracked into the street?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Street contains no sediment tracking or dust near construction exit</li> </ul>	<ul style="list-style-type: none"> <li>Continue ongoing maintenance</li> </ul>

**Overall Site Issues (Plan Implementation)**

	BMP/Activity	Implemented?	Maintenance Required	BMP/Activity Consistent with Plans	BMP/Activity Conformant with Permit	BMP/Activity Conformant with Guidelines	Notes	Recommended Corrective Action
H	Is trash/litter from work areas collected and placed in covered dumpsters?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No trash/debris found on-site at time of inspection</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
I	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Washouts not constructed at time of inspection</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
J	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Fueling area appeared in order at time of inspection</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
K	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No such materials on site at time of inspection</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
L	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No non-stormwater construction related discharges observed</li> </ul>	<ul style="list-style-type: none"> <li>No corrective action required</li> </ul>
M	Are dust control measures in place and being implemented as needed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Dust control was not needed at time of inspection</li> <li>Sweeper noted on site</li> </ul>	<ul style="list-style-type: none"> <li>Equipment should be on stand-by as needed</li> </ul>
N	Are slopes (3:1 or steeper) matted (per plan)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	<ul style="list-style-type: none"> <li>Unknown if steep slopes exist on site</li> </ul>	<ul style="list-style-type: none"> <li>Confirm that all slopes 3:1 or steeper are matted per plan</li> </ul>



### **Non-Compliance Information**

**Describe any incidents of non-compliance not described above:**

- No additional observed incidents of non-compliance at the time of inspection

### **Other Comments**

**Describe any other comments related to the site that have not been adequately described above:**

- The baseline contours do not appear to be completely accurate. Survey for as-built grade and verify that drainage areas match plans. During inspections, there were several low-lying areas collecting site run-off that is intended to flow into constructed traps and basins. An effort is being made by the contractor to direct flow in the intended direction (using strategically placed swales and cuts) but the site contains several large areas where the overall pitch of the site does not appear to be flowing in the designed direction (especially at the Northeast end of the site).
- The contractor has applied a seed mix (grass) throughout the site. At the time of inspection there was a very low percentage of active growth.
- All alterations, including changes, additions, or removal of permitted elements are required to be incorporated in the most recent site plans. These changes must be properly addressed in the Stormwater Pollution Control Plan (SWPCP).
- Paxton soils on the east side of the site tend to contain a higher percentage of sandy textured particles. Woodbridge soils on the west side contained higher fine textured materials. While the native soils may not have the proper percent breakdown of soil texture classes for the construction of basins and traps (per 2002 Connecticut Guidelines for Soil Erosion and Sediment Control) the textural class of the soils does not seem to be affecting the functionality of the basins and traps.
- Inlet armoring mentioned above should consist of smaller aggregate stone.
- Landscape buffer plan has been implemented.

**Certification Statement**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

*David Laiuppa*

David Laiuppa – CSS, CESSWI

6/15/17

Signature of Inspector

Printed Name and Title

Date

*Joshua Weiss*

Joshua Weiss – PSS, QCIS, QPSWPPP

6/15/17

Signature of Inspector

Printed Name and Title

Date

Signature of Inspector

Printed Name and Title

Date

**Permittee Signature**

"I accept the above inspection report as it has been presented to me. I have had no influence on the independent inspection or the results of findings that have been recorded. I understand that the findings and recommendations of this inspection report are in the best interest of the protection of regulated resources that have the potential to be affected by activities related to and resulting from the project. I understand that the inspection findings presented above do not preclude or supersede any findings that are presented from any regulatory agencies that hold jurisdiction over this project. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Permittee (or designee)

Printed Name and Title

Date



May 30, 2017

Fusion Solar Center, LLC  
1166 Avenue of the Americas  
9<sup>th</sup> Floor  
New York, NY, 10036

Attn: Mr. David Zwillinger  
P: (212) 478-0000  
E: david.zwillinger@deshaw.com

Re: Fusion Solar Center  
111 Potash Hill Road  
Sprague, CT 06330  
Terracon Project No. J2171017

Dear Mr. Zwillinger:

Terracon Consultants, Inc. (Terracon) is pleased to provide this summary letter regarding our review of the Stormwater Pollution Control Plan (SWPCP) that was prepared for the Fusion Solar Center project, and the observations made during our recent visit to the Fusion Solar Center site located at 111 Potash Hill Road in Sprague, Connecticut, and to provide recommendations with respect to stormwater management at the site.

Fusion Solar Center, LLC received a Notice of Permit Authorization from the DEEP (dated November 15, 2016) to discharge stormwater at the site under the General Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activities ("General Permit", effective October 1, 2013). Terracon reviewed the Stormwater Pollution Control Plan (SWPCP), dated January 9, 2017 prepared for the project by Kleinfelder, Inc., relative to the requirements included in Section 5(b) of the General Permit. Based on our review of the SWPCP, the contents appear to be consistent with the requirements included in Section 5(b) of the General Permit; however, the SWPCP might need to be amended pursuant to Section 5.4.1 of the SWPCP and Section 5(b)(5) of the General Permit if alternate stormwater controls are implemented as a result of the recent stormwater discharge issues at the site during heavy rain events.

Terracon visited the site on May 18, 2017 to review the existing site conditions and stormwater controls that have been implemented as part of the project. The current site operations at the time of the visit included minor grading and rock crushing operations associated with the construction of a gravel road in the northern interior portion of the site. Approximately 130 acres of land appears to have been recently cleared of vegetation. Terracon observed several erosion and sedimentation controls at the site including temporary sediment traps, sediment basins, diversion ditches, silt fencing, wood chip berms, and a gravel construction entrance. Based on

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**Fusion Solar Center**

111 Potash Hill Road ■ Sprague, Connecticut  
May 30, 2017 ■ Terracon Project No. J2171017



conversations with site contacts, temporary sediment basin SB-3 was recently enlarged and the additional scouring holes and sediment traps were installed downslope to the tree line to the south of the basin.

The alterations to SB-3 were completed following a recent rain event where water discharged from the basin's spillway and travelled through natural drainage pathways to the south, through a wooded area, out to Potash Hill Road and into an existing sediment-laden culvert. The interior of the wooded area along the drainage pathway was not accessible during Terracon's site visit; however, Terracon did not observe sediment deposition in the wooded area while looking south from the northern edge of the woods (proximal to the aforementioned scouring holes), or looking north from the southern edge of the woods adjacent to Potash Hill Road. The lack of sediment observed in the wooded area, suggests that a limited amount of sediment was not transported from the site to surrounding properties. The stormwater flow appears to have inundated the existing sediment laden culvert and traveled west down the channel lines along Potash Hill Road to second culvert. The stormwater flow appears to have caused erosion along the edges of Potash Hill Road and deposited sediments down-gradient of the second culvert.

The bedrock (gneiss) appears to be very shallow in the drainage area associated with SB-3, which is evident by several outcrops visible on the slopes of the hill up-gradient of the basin. It is likely that the shallow bedrock at the site reduces the potential for subsurface infiltration and consequently increases the total volume of runoff. If the bedrock is shallower in this portion of the site that was anticipated during the stormwater modelling process, a decrease in the calculated time of concentration from what was modeled would be expected.

Terracon observed several locations in the drainage basin for SB-3 where the stormwater flow appears to concentrate and channelize. This was evident by rills and small gullies at several location along the slope of the up-gradient hill. Stormwater flow also appears to concentrate along the stone access road proximal to the drainage area prior to draining into SB-3.

Based on the observations during Terracon's May 18, 2017 site visit, we recommend the following with respect to stormwater management at the site:

Temporary Erosion and Sediment Controls

- Maintain the existing scouring holes that were installed down-gradient of SB-3 and place additional stone along the western and eastern edges of the scouring holes to reinforce the stormwater controls.
- The existing sediment-laden culvert should be cleaned out to restore previous off-site drainage conditions, which appears to include stormwater discharge to the grassy area located to the south of Potash Hill Road.
- Stone swales be installed perpendicular to the fall line in drainage area for SB-3 to reduce the velocity of surface runoff, thus decreasing the time of concentration of stormwater to the basin.

- A portion of the stormwater in the drainage area SB-3 could be redirected to temporary sediment traps ST-11 (to the east) and ST-12 (to the southeast) to reduce the stormwater discharge volume from SB-3 into the adjoining property.

Long-Term Stormwater Management Considerations

- Sediment transport from the site is not anticipated to be a post-construction concern.
- Installation of a permanent containment structure within the SB-3 drainage basin is unlikely to resolve the issues identified during recent rain events.
- Stone drainage swales should be installed up-gradient of the property line in the SB-3 drainage area to reduce runoff velocities and to distribute stormwater flow over a wider area instead of concentrating the flow into a channel.

We trust this letter satisfies your needs at this time. Should you have questions or require additional information, please contact the undersigned.

Sincerely,

**Terracon Consultants, Inc.**



Jerry G. Salsgiver, PE  
Office Manager



Larry B. Page, CHMM, CPESC  
Environmental Project Manager



May 15, 2017  
Kleinfelder Project No.: 20172893.001A

Mr. Neal Williams & Ms. Sharon Yurasevecz  
Connecticut Department of Energy and Environmental Protection  
Water Permitting and Enforcement Division  
79 Elm Street  
Hartford, CT 06106-5127

**SUBJECT: CT 30 Fusion Solar - Sedimentation Basin #3 Discharge**

Dear Mr. Williams & Ms. Yurasevecz:

Kleinfelder has been made aware of an incident occurring on May 5<sup>th</sup> 2017, in which Sedimentation Basin #3 (SB3), located on the Depcom Fusion Solar Site property at 111 Potash Hill Road in Sprague, CT, discharged water causing downstream impacts to town roads and neighboring properties. Below is a summary of the incident, the criteria used to design the sediment and erosion controls as shown in the construction drawings and the proposed measures Kleinfelder recommends to prevent reoccurrence.

Summary of Incident, as described to Kleinfelder by Depcom:

- The event happened around 3:30pm on May 5<sup>th</sup>. A rain event began around 12:30 pm and continued until around 3:15pm. Over this time approximately 3.25" of rain fell on the site as measured by the on-site rain gauge.
- At approximately 3:15 pm there was 2 feet of freeboard between the water level in SB3 and the top of the concrete outfall structure. At this time the outfall was flowing, fed by the 2-inch line coming from the skimmer, but was not causing any erosion or damage downstream.
- At approximately 3:30pm the water level rose to the point it overtopped the concrete outfall structure and water could enter the outfall via the 4'x4' grate. The water leaving the outfall eroded the installed scour hole as well as the downstream purification measures.
  - The water level in SB3 did not discharge through the emergency spillway.
- The water traveled south towards Potash Hill Road. The water entered an existing culvert beneath the roadway where it flowed until the culvert became clogged with debris. Once clogged the water overtopped the roadway and began to pool up by the driveway apron of 104 Potash Hill Road. Some water ran down the driveway of 104 Potash Hill Road until the homeowner stopped this by placing sandbags at the end of their driveway.
- The contractor was onsite during this event and took the following measures to minimize further impacts:
  - Built riprap pools downstream of the basin outfall to help slow and retain the discharging water.

- Water began to flow west down Potash Hill Road for approximately 700' until it ran off the south side of the road into the property of 85 Potash Hill Road. Once off the road the water found its way to a small pond located on the property.
- At approximately 6:30 pm the water level in SB3 dropped below the elevation of the top of the concrete outfall structure and the flow leaving the basin was only being fed from the 2" skimmer line. At this point the remaining water was contained on site.

Design Background & Criteria:

All sediment and erosion control measures for the project were designed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. Two rows of silt fence and a single row of woodchip berm were designed as perimeter controls with larger sediment loads handled by sediment traps and sediment basins within the site.

Design of sediment basins account for the area tributary to the basin, type of activity being performed within that area and type of soils present (see 2002 CT DEEP E&S Guidelines, Chapter 5, Section 11). The capacity required for SB3, as shown in the construction plans, is 11,900 cubic feet with dimensions of 100 feet in length, 50 feet wide with a 5 foot depth.

Outlet protection was provided for all sediment traps and sediment basins and comprised of riprap aprons for the sediment traps and scour holes for the sediment basins. The purpose of both measures is to reduce the velocity of the water being discharged to prevent downstream erosion. All riprap aprons and scour holes were designed in accordance with the Connecticut Department of Transportation Drainage Manual, Chapter 11, Section 13.

Design of scour holes consider flow rate, cross sectional area of the discharge pipe, and flow velocity. The scour hole required for SB3, per the guidelines and as shown in the construction plans, is 27 feet long (in the direction of flow), 24 feet wide, 1 foot thick with a 1 foot depression in the center, and comprised of standard sized riprap ( $d_{50} = 15''$ ).

Recommended Corrective Actions:

Kleinfelder recommends the following actions to be taken:

1. Perform a site survey to determine drainage area flowing to SB3.
  - a. To verify all basins and traps are properly sized, topographic survey should be performed to determine the area that is currently draining to the each. Once survey is received the basin shall be analyzed to assure compliance with the design requirements set forth in the 2002 CT DEEP E&S Guidelines and Connecticut Department of Transportation Drainage Manual.
2. Volume of all basins and traps needs to be designed and constructed for current drainage area.
  - a. Some modifications have already been performed by the contractor. The current volume of the SB3 exceeds the original design requirements.
3. Increase the size of the scour hole at SB3 to follow the construction drawings.
  - a. Verify that the original designs are still appropriate based on new topographic survey.
  - b. The scour hole at SB3 is currently approximately 20' long (in the direction of flow), 30' wide, approximately 2' deep and comprised of standard riprap ( $d_{50} = 15''$ ). The construction plans require the scour hole dimensions to 27 feet long (in the direction of flow), 24' wide, and 1' deep. The scour holes must meet the minimums of the design and construction documents.

4. Additional purification and velocity dissipation measures, above the regulatory requirements, may be considered to change the conditions of the runoff leaving the site. Examples include additional riprap protection, velocity dissipaters, sediment traps, check dams, etc.

Kleinfelder remains available for additional support regarding this storm event and for any questions and discussion.

Sincerely,

**KLEINFELDER**



Raymond Culver, P.E.  
Project Professional

cc: Ms. Liz Bissonnette  
Mr. Albert Bisacky  
Mr. Steven Carty  
Mr. Neil Kulikauskas  
File



## Tab 5

Fusion Solar Center, LLC  
c/o D. E. Shaw Renewable Investments,  
L.L.C.  
1166 Avenue of the Americas, 9<sup>th</sup> Fl.  
New York, NY 10036

May 10, 2017

Mr. Neal Williams  
Connecticut Department of Energy and Environmental Protection  
Bureau of Materials Management and Compliance Assurance  
79 Elm Street, 2<sup>nd</sup> Floor  
Hartford, CT 06106  
(860) 424-3018

**Re: Notice of Violation, NOV NO. WR SW 17 004**

Dear Mr. Williams:

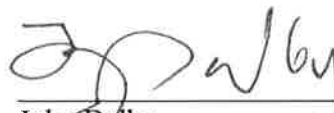
Reference is made to the Notice of Violation, NOV NO. WR SW 17 004, dated April 25, 2017 from the Department of Energy and Environmental Protection to Fusion Solar Center, LLC.

This letter is to confirm that we have received the Notice of Violation, and as further described in the attached Compliance Certificate, Fusion Solar Center, LLC has taken necessary actions to address the violation cited in the Notice of Violation.

Please do not hesitate to contact Scott Williams at (212) 403-8494 with any questions.

Sincerely,

Fusion Solar Center, LLC

  
John Dalby  
Authorized Signatory

Cc: Jack Melcher (OES 04-01)  
U.S. Environmental Protection Agency  
5 Post Office Square Suite 100  
Boston, MA 02109-3912

Encl.

### Compliance Statement

This Compliance Statement shall be signed by : (1) You (is an individual – the individual signs); (if a corporation or a partnership – by a responsible corporate officer/general partner or a duly authorized representative of such person, as those terms are defined in Section 22a-430-3(b)(2) of the Regulation of Connecticut State Agencies); or (if a municipality - chief elected official or principal executive officer) **and** (2) if different, by the individual responsible for actually preparing such statement, each of whom shall read and sign the certification regarding false statements on the Compliance Statement.

Within fifteen days of the date you become aware of a change in any information in the Compliance Statement, or that any information was inaccurate or misleading or that any relevant information was omitted, submit the correct or omitted information to DEEP and EPA staff contacts identified in the Notice of Violation.

Notice of Violation: April 25, 2017  
Facility Name: Fusion Solar Center, LLC  
Facility Address: 111 Potash Hill Road, Sprague, CT

Attention: Scott Williams  
NOV WR SW 17 004

In accordance with the directions in the above-referenced Notice of Violation, I certify that the noted violations \*and additional comments have been corrected in the following manner:

1.(a): Failed to install and maintain structural practices (sediment traps and basins) in accordance with the 2002 CT Guidelines for Soil Erosion and Sediment Control and Section 5(b)(2) of the general permit.

- 1) As to the need for perimeter controls along the southeastern edge of the property where the new roadway had been installed:

*Response:* Additional perimeter controls have since been installed. Photos were provided to CTDEEP in an e-mail to Mr. Neal Williams (original email included in the box.com link below) dated April 3, 2017.

- 2) As to the completion of the temporary sediment basin located in the southwestern portion of the site and its differing from the specifications contained in the approved Stormwater Pollution Control Plan:

*Response:* A modification to this basin design was required due to the property boundary change detailed in the Boundary Change Letter provided to CTDEEP on December 7, 2016. Updated plans and SWPCP dated January 9, 2017 reflecting this required design

change were submitted to CTDEEP for review and approval in January of 2017. The prime contractor for the project, DEPCOM, has built the basins to these updated plans rather than the originally approved plans, which are outdated and cannot be implemented as designed. All temporary basins and sediment traps were completely installed as of March 20, 2017.

- 3) As to the installation of wood check berm's depicted in the site's SWPCP:

*Response:* All wood check berms have been installed as of the end of March, 2017 (photos included in box.com link below).

- 4) As to the installation of all temporary sediment traps:

*Response:* All temporary basins and sediment traps were installed as of March 20, 2017 (photos included in box.com link below).

- 5) As to the concern of a rip rap lay down not depicted on the approved plan sheets:

*Response:* This laydown area was an addition included in the updated plans and SWPCP dated January 9, 2017 submitted to CT DEEP for review and approval in January, 2017.

- 6) As to the outfall monitoring that are needed to be conducted as soon as there was an offsite discharge:

*Response:* The first incidence of offsite discharge occurred on Friday, May 5<sup>th</sup>. The report for the event is in progress and will be submitted shortly. No other offsite discharges have occurred

1.(b): Failed to conduct and maintain records of a plan implementation inspection in accordance with Section 5(b) 4 of the general permit:

*Response:* The Plan Implementation Inspection was performed in April and the report was provided to CTDEEP on April 25, 2017 (included in box.com link below).

In addition to the above responses, we are attaching all weekly inspection reports and any and all contractor certifications via the following box.com link:

<https://app.box.com/s/dahic0w6gryqqg8ganyuecntjwqyo3av>

Should CT DEEP have any further questions or concerns, please do not hesitate to contact us.

[Remainder of this page intentionally left blank.]

**Certification of Accuracy**

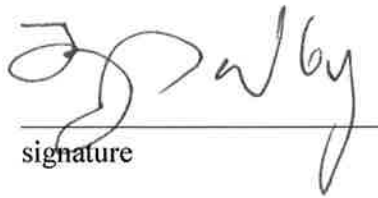
I certify that the information in this Compliance Statement and any attachments thereto are true, accurate and complete, and I understand that any false statement may be punishable as a criminal offense under Connecticut General Statutes Sections 22a-6 and 53a-157.

05/10/2017

Date

212-403-8474

Telephone



signature

John Dalby, Authorized Signatory  
c/o D. E. Shaw Renewable Investments, L.L.C.  
1166 Avenue of the Americas, 9<sup>th</sup> Floor  
New York, NY 10036



**DEPCOM POWER HEADQUARTERS:**  
9200 E. Pima Center Parkway, Suite 180  
Scottsdale, AZ 85258  
(480) 270-6910

15 June 2017

Neal M. Williams  
Water Permitting and Enforcement  
Bureau of Materials Management and Compliance Assurance  
Connecticut Department of Energy and Environmental Protection  
79 Elm Street, Hartford, CT 06106-5127

Re: CT30 – Notice of Violation

Dear Mr. Williams

This letter is with respect to the Notice of violation (NOV) for the CT30 project. This letter shall serve as DEPCOM's actions taken to resolve the NOV, and additionally items that may be solutions to outstanding concerns.

DEPCOM has completed rework across all sediment basins and traps. This effort was to ensure the installed SWPCP controls met the plan set. All items listed below have been completed in the field.

**Corrective Actions Completed since previous inspection:**

- All traps have been stabilized with straw matting for temporary stabilization. Each large sediment Basin has been stabilized with straw matting.
- Diversion ditches ST-11B, ST-13A, ST-13B, SB-2A, SB-1A, ST-1B, ST-3A, have been re-worked. They have been installed per plan at 24" wide and 18" deep.
- 12" + of 15" Rip Rap has been added to the outlet of SB-3.
- ST-1 has been cleared of all debris on the inlet.
- Diversion ditches ST-1A and ST-1B have been fixed to meet the 24" minimum width and 18" minimum depth.
- Diversion ditches ST-3A and ST-3B have been corrected to meet the 24" minimum width and 18" minimum depth.
- Construction on ST-5 has been completed, and straw matting has been placed.
- Diversion ditch ST-6A has been extended per plan and enlarged to meet the minimum width and depth.
- Diversion ditch ST-6B has been cleared of all organic debris.
- Diversion ditch ST-8A has been completed and is now connected and continuous to ST-8, the ditch has also been cleared of all rocks and debris.
- Silt fence around ST-10 has been remediated and is now embedded 6" in the soil.
- Diversion ditches SB-1B, ST-16A, and ST-14A have been extended to the road, and have been reworked per the drawings.

To remediate all items described in the Plan Implementation Inspection, and Kleinfelder's report, DEPCOM has ordered material and mobilized crews to complete the following items, if CTDEEP agrees with the items listed below:

**Corrective actions in progress:**

- Additional Rip Rap is being added to the trap and Basin outlets per plan.
- Diversion ditches SB-3A and SB-3B are in place and debris is currently being removed.
- Diversion ditch ST-4A was remediated, but due to construction in the area will need to be cleaned up.
- Diversion ditch ST-9A is currently being cleared out of all rocks and debris.

DEPCOM and Kleinfelder have made multiple attempts to receive a response from the Dam Safety group, on a determination of SB-3. To date this is still an unknown whether the current installation or the original design would require this permit.

DEPCOM will continue to pursue closure of this item. Additionally, we would request assistance from CTDEEP to close the loop. Once a clear path is determined we will begin implementing any changes necessary. If a Dam safety permit is required DEPCOM will take the necessary actions to complete the process with the least amount of impact to current construction Schedule.

Respectfully,

Nick Detelich, PMP  
Project Manager  
(417) 689-4346