



Proactive by Design

GEOTECHNICAL
ENVIRONMENTAL
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WATER
CONSTRUCTION
MANAGEMENT

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August 16, 2016
File No. 03.0033579.04

Mr. David Szymanski
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

Re: Site Management Periodic Review Report and IC/EC Certification Submittal
Monitoring Period: May 5, 2015 through May 5, 2016
Tecumseh Redevelopment Site (Site No. C915205)
Lackawanna, New York

Dear Mr. Szymanski:

GZA GeoEnvironmental, Inc. (GZA) is pleased to submit this Site Management Periodic Review Report and Institutional Controls/Engineering Controls (IC/EC) Certification Submittal (PRR) to the New York State Department of Environmental Conservation (NYSDEC), for the Steel Winds I portion of the Tecumseh Redevelopment Site (Site No. C915205), located in Lackawanna, New York. This letter report has been prepared on behalf of the Site operator, Niagara Wind Power, LLC (NWP) an affiliate of Sun Edison, dba First Wind Energy, LLC (First Wind) and has been prepared in general accordance with NYSDEC's June 21, 2016 letter to BQ Energy and NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation, dated May 23, 2010. This letter report is subject to the Limitations provided in Attachment A.

EXECUTIVE SUMMARY AND SITE OVERVIEW

Tecumseh Redevelopment, Inc. (Tecumseh) owns approximately 1,100 acres of land at 1951 Hamburg Turnpike, as shown on Figure 1. The property was formerly used for the production of steel, coke and related products by Bethlehem Steel Corporation (BSC). Steel production on the Tecumseh property was discontinued in 1983 and the coke ovens ceased activity in 2000. Tecumseh acquired the property, along with other BSC assets, out of bankruptcy in 2003.

In September 2006, BQ Energy entered into a long-term lease agreement with Tecumseh to construct and operate wind turbines and supporting power generation equipment and infrastructure on an approximately 29-acre parcel of the Tecumseh property, referred to as the Steel Winds Site. BQ Energy and the NYSDEC also entered into a Brownfield Cleanup Agreement for the Steel Winds Site. The Site is wholly contained within the Slag Fill Area (SFA) Zones 3 and 4 of the Tecumseh property bordered by Lake Erie to the west, Smokes Creek to the south, and former industrial lands of BSC to the north and east, as shown on Figure 2. A Site Plan is provided as Figure 3. NWP operates the eight wind turbines installed at the Site.

The Brownfield Cleanup Program (BCP) was successful in achieving the remedial objectives for the Steel Winds Site. The Site Management Plan (SMP) and Final Engineering Report (FER) were approved by NYSDEC in December 2007. NYSDEC issued a Certificate of Completion (COC) for the Site on December 18, 2007.



The remedial activities conducted at the Site include:

- Excavation and off-site disposal of impacted slag fill from the eight wind turbine foundations and interconnecting utility trenches;
- In-situ enhanced biodegradation of residual volatile organic compounds (VOCs), including benzene, toluene, total xylenes, and naphthalene, using oxygen release compound (ORC[®]) socks within the saturated soil and groundwater in the vicinity of WT-01 and associated monitoring; and,
- Completion of a soil cover system.

An *Operation, Monitoring and Maintenance Request for Modification*, dated November 2011, was submitted to NYSDEC by Benchmark Environmental Engineering and Science, PLLC (Benchmark) on behalf of First Wind. This report proposed ceasing operation of the oxygen releasing compound (ORC[®]) groundwater remedy for the WT-01 Vicinity. NYSDEC provided comments to this report on April 10, 2012 and GZA provided a response letter on May 9, 2012. Based on this letter, and subsequent correspondence with NYSDEC, the ORC[®] remedy has been terminated (the ORC socks were removed from five wells on May 16, 2012). Semi-annual groundwater monitoring will continue in the WT-01 vicinity following the recently revised program; and the Site-wide Long-Term Groundwater Monitoring (LTGWM) Plan will continue in accordance with the SMP. The WT-01 vicinity environmental conditions will be reevaluated in the future, following milestones described in GZA's May 9, 2012 letter to NYSDEC. Monitoring well WT01-05, which was noted as destroyed in Benchmark's May 2011 PRR, was replaced in May 2012 by GZA and is included in the semi-annual groundwater monitoring program.

The IC/EC (i.e., a soil cap and land use restrictions) are in general compliance with the SMP. Minimal areas of soil erosion, rutting and thin vegetation were observed. No evidence of animal burrow holes was observed. Repairs/maintenance to isolated areas of thin vegetation and/or vehicle ruts or erosion to the soil cap, if identified, are typically repaired as part of routine maintenance.

RECENT PROGRAM MODIFICATIONS

Due to the extended cold weather conditions experienced during the 2015 winter months, the semi-annual groundwater sampling event that was scheduled to be completed in January 2015 was delayed until March 2015. In an effort to allow for sufficient time between sampling events and to reduce potential for future delays due to cold weather conditions, First Wind has requested, and NYSDEC has approved that the scheduled times for the annual/semi-annual and semi-annual groundwater sampling events be modified from June and January, respectively, to September and March for the current and future monitoring periods. The PRR evaluations will continue to be conducted on an annual basis with no impact from the requested scheduling change. It is GZA's opinion that the requirements for discontinuing Site management have not yet been met.

SITE MANAGEMENT PLAN

A SMP was prepared for the Site and approved by NYSDEC in December 2007. The SMP includes an Operation, Monitoring, and Maintenance (OM&M) Plan, a Soil/Fill Management Plan (SFMP), and Environmental Easements. The OM&M Plan consists of three major components: 1) the Site-wide LTGWM Plan and WT-01 Vicinity monitoring; 2) a WT-01 Vicinity ORC Monitoring and Maintenance Plan; and 3) the Annual Inspection & Certification Program. A brief description of the components of the SMP is presented below.

Groundwater Monitoring OM&M Plan

As a requirement of the SMP, LTGWM is being performed at nine (9) wells across the Site. The following semi-annual and annual groundwater reports have been prepared by GZA and submitted to NYSDEC in accordance with the SMP since our previous PRR submission in June 2015.



- “September 2015 Annual-Semi-Annual Groundwater Monitoring Report, Steel Winds I Facility, Lackawanna, New York” prepared by GZA GeoEnvironmental of New York for Sun Edison, dba First Wind Energy, LLC, dated, November 2015.
- “March 2016 Semi-Annual Groundwater Monitoring Report, Steel Winds I Facility, Lackawanna, New York” prepared by GZA GeoEnvironmental of New York for Sun Edison, dba First Wind Energy, LLC, dated, April 2016.

The two monitoring reports listed above have previously been provided under separate cover and submitted electronically to NYSDEC. GZA is currently scheduled to conduct the next annual/semi-annual sampling event consisting of the nine (9) LTGWM wells and the six (6) WT-01 vicinity wells in September 2016.

As discussed in GZA’s May 9, 2012 letter, six wells in the WT-01 vicinity (BCP-ORP-1, MWN-01, MWN-01B, WT1-02, WT1-04 and replacement well WT1-05) will be sampled on a semi-annual basis for the following compounds:

- STARS list VOCs via EPA Method 8260B; and
- Base-Neutral semi-volatile organic compounds via EPA Method 8270C.

The LTGWM Plan will continue in accordance with the SMP although, as discussed above, the sample times have been modified from June and January to September and March.

As described in the May 9, 2012 letter, remedial alternatives have not yet been selected or implemented for the various Solid Waste Management Units (SMUs) which make up the former Bethlehem Steel Site (i.e., the Tecumseh Redevelopment property). Assessing the relative contaminant contribution from the Steel Winds Site is difficult. As such, GZA proposed that the recently agreed to semi-annual groundwater monitoring in the WT-01 vicinity continue until these remedies have been selected, implemented and their effectiveness evaluated. Once this has occurred, the relative impact of the contaminant contribution from the Steel Winds Site can be assessed.

On September 30, 2013, GZA submitted a Technical Impracticability Waiver Supplemental Field Studies Work Plan for the Site, detailing sampling, laboratory analysis, data evaluation and reporting to be conducted in support of a Technical Impracticability Waiver request for the Site. This Work Plan was approved by NYSDEC on February 24, 2014. The Work Plan was implemented in the summer 2014 and a Technical Impracticability Waiver Application was submitted to NYSDEC on November 5, 2014. The study included an evaluation of the potential impact of groundwater discharges to adjacent water bodies and benthic invertebrates, a regional groundwater mass flux and contaminant mass loading evaluation, as well as an ecological risk assessment. The study concluded that:

- Previously implemented Institutional and Engineering Controls (IC/ECs) voluntarily implemented at the Steel Winds Site under the Brownfield Cleanup Program (BCP), including a soil cap and offsite disposal of displaced soil and activity and use limitations, have effectively mitigated potential risks to human health.

The Fish and Wildlife Resource Impact Analysis (FWRIA)¹ prepared by GZA identified PAHs in sediment, and certain VOCs in pore water within Smokes Creek, at concentrations that may potentially be harmful to exposed aquatic/benthic organisms. Inputs from sources other than the WT-01 pore water likely contributed to the concentrations of PAHs and VOCs measured. Furthermore, comparisons of sediment and pore water data to screening levels likely resulted in a conservative assessment because of the limited number of PAHs reported, and

¹ Note that an information request was submitted to the New York Natural Heritage (NYSNH) Program, as the DEC ERM indicated that rare species habitat is present in Lake Erie adjacent to the Site. The results were not available in time to be reported with the November 5, 2014 TI Waiver Application. The results of that inquiry were subsequently reported to DEC in a letter dated January 28, 2015. They substantiated the findings presented in the TI Waiver Application and confirmed the need for a limited supplemental ecological evaluation.



suspended particulates in the pore water samples. For this reason, GZA recommended additional sampling to evaluate the relative contribution from other sources, and to collect data more representative of potential bioavailability and risk to ecological receptors.

- GZA evaluated five potential remedies for the WT-01 AOC using criteria described in DEC's DER-10 (Technical Guidance for Site Investigation and Remediation, dated May 3, 2010) and EPA's "Guidance for Evaluating Guidance for Evaluating the Technical Impracticability of Ground-Water Restoration", dated September 1993.
 - Monitored Natural Attenuation (MNA);
 - Air Sparge/biosparge with a contingency enhanced denitrification system;
 - Reactive Barrier (Air-sparge/biosparge curtain using a continuous stone trench with a contingency enhanced denitrification injection system);
 - In-situ Chemical Oxidation (ISCO); and
 - Hydrodynamic Groundwater Containment (HGC).

Based on this evaluation, it is GZA's opinion that active remediation is not warranted or feasible, would not result in significant benefit to the environment relative to the cost, and is technically impracticable.

As noted, GZA recommended, and in April 2015 DEC personnel approved, additional surface water and sediment sampling and analysis from Smokes Creek and Lake Erie to further evaluate potential impacts to ecological receptors. The field work was completed in August and September of 2015 and we anticipate a final report of the supplemental investigations will be submitted in the fall of 2016.

Engineered and Institutional Controls

An engineered control (EC) consisting of a soil cover system has been installed at the Site. Maintenance of the 12-inch soil and vegetated cover system is being performed in compliance with the SMP.

The Steel Winds Site is subject to the following institutional controls (ICs):

- Groundwater-Use Restriction – the use of groundwater for potable and non-potable purposes is prohibited;
- Land-Use Restriction - the controlled property may be used for commercial and/or industrial use;
- Implementation of the SMP including the OM&M Plan and SFMP.

The SFMP provides guidelines for the management of soil and fill material during any intrusive activities. No intrusive activities requiring management of on-Site soil or fill material, or the placement of backfill materials (beyond that required for minor cap repairs described in last year's report), are known to have occurred during the current monitoring period.

Annual Inspection and Certification Program

As a requirement of the SMP and in accordance with NYSDEC DER-10, this PRR is to provide the information necessary to document the basis for the IC/EC certification. The certification primarily consists of an annual Site inspection to complete NYSDEC's IC/EC Certification Form in order to confirm that:

- The IC/ECs are in place, performing properly, and remain effective;
- Nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for the IC/ECs; and
- Access is available to the Site to evaluate continued maintenance of the IC/ECs.



A Site visit of the property was conducted by GZA on June 22, 2016 and the IC/EC Certification Form has been signed by an engineer who meets the requirements of a Qualified Environmental Professional (QEP) and is a Professional Engineer registered in the State of New York. At the time of the inspection, the Site was observed to be in compliance with the IC/ECs. Limited surface damage (minor rutting and thin vegetation coverage) to the vegetated cover system in the vicinity of WT-01 through WT-08 was noted during the site visit. The limited surface damage was likely the result of occasional vehicular traffic on the cap during moist to wet conditions. In general, the LTGWM network was noted to be in good condition. The minor grading and vegetative cover repair will be conducted by First Wind during the summer of 2016 as weather conditions permit.

We note that a release of a heavy weight gear oil associated with the nacelle for WT-6 was reported to the NYSDEC on June 2, 2015. The spill reportedly consisted of about 1 gallon of material that impacted the ground surface and surface water of Lake Erie. It appears that two notifications were made to NYSDEC resulting in the assigning of two separate spill numbers. Spill # 1502301 was received by NYSDEC at 10:18 AM and Spill # 1502332 was received at 11:04 AM. Because the spill was apparently called in by two separate parties, the first notification (Spill #1502301) was closed and the second notice (Spill #1502332) remained open. NYSDEC visited the Site and required that the oil-impacted grass be bagged when cut and the top 1-inch of impacted gravel be collected and containerized. An oil absorbent boom and pads were also reportedly used to collect oil from impacted surface water and the remaining oil material inside the nacelle and was placed in drum containers for eventual disposal. During our Site visit, two over-pack drums reportedly containing the collected grass, gravel and absorbent pads were observed stored adjacent to the spare electrical transformer containment area (between WT-5 and WT-6). First Wind personnel indicated these drums were being scheduled for removal for disposal by Safety Kleen within a few weeks of the Site Visit. Because the containerized material had not yet been removed from the Site for disposal, the NYSDEC spill remained open at the time of this report and the spill is anticipated to be closed upon receipt of disposal documentation. Remaining evidence of oil impacts was not observed on the grass, gravel or nearby water during the recent Site observations made proximate to WT-6.

The completed Institutional and Engineering Controls Form is included in Attachment B. A photographic log of the Site inspection is included in Attachment C.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations are as follows:

- At the time of the Site inspection, the Site was in compliance with the IC/ECs including: groundwater monitoring, maintenance of the cover system, land-use restrictions, groundwater-use restrictions, and soil/fill management plan.
- Minor surface and vegetative cover damage was noted in the vicinity of WT-01 through WT-08. The cover system damages are currently being addressed, and repairs are expected to be completed by First Wind by September 1, 2016. Grass mowing and routine cover system maintenance should be continued at the Site in an effort to keep the cover in good condition.
- Site-wide LTGWM and WT-01 vicinity groundwater monitoring will be continued. In accordance with the SMP, the next semi-annual WT-01 and LTGWM event is scheduled for September 2016.
- The groundwater remedy for the WT-01 Vicinity has been re-evaluated as described above.
- No modifications to the current SMP are recommended at this time. PRR evaluations should continue to be conducted on an annual basis and GZA believes that the requirements for discontinuing site management have not yet been met.



We trust this letter report addresses your requirements. If you need any additional information, please feel free to contact Ed or Rick at (401) 421-4140 or via email at edward.summerly@gza.com or richard.carlone@gza.com.

Sincerely,

GZA GEOENVIRONMENTAL, INC.

A handwritten signature in blue ink, appearing to read "Richard A. Carlone".

Richard A. Carlone, P.E.
Senior Project Manager

A handwritten signature in blue ink, appearing to read "Edward A. Summerly".

Edward A. Summerly, P.G.
Principal

RAC/EAS:blm

Attachments: Figures 1 through 3
 Attachment A - Limitations
 Attachment B - Institutional and Engineering Controls Form
 Attachment C - Site Photographs

cc: Maurice Moore, NYSDEC
 Michael Andrzejczak, First Wind Energy, LLC (electronic copy)

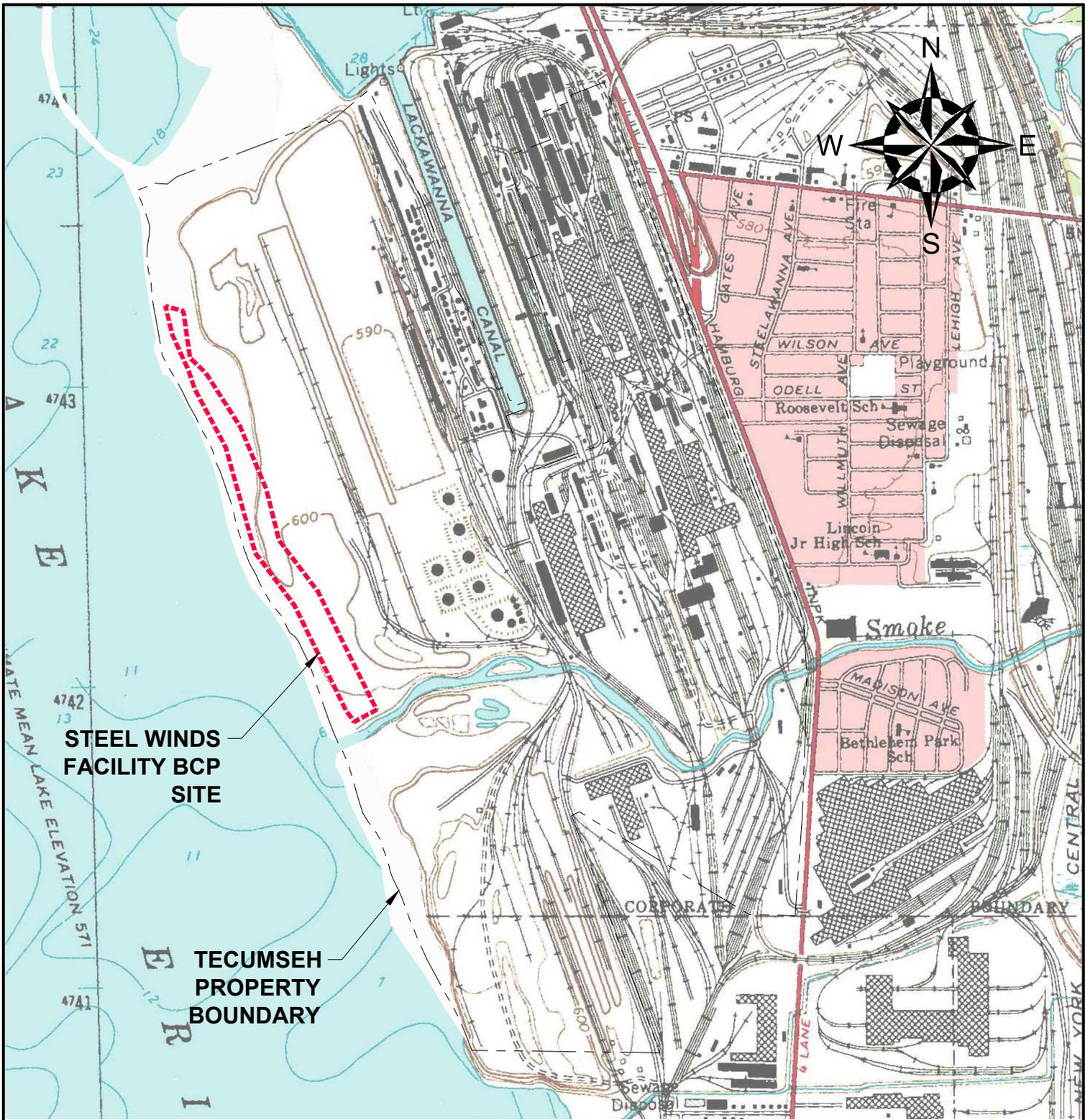
A handwritten signature in blue ink, appearing to read "Daniel J. Troy".

Daniel J. Troy, P.E.
Consultant/Reviewer

J:\ENV\33579.04.RAC\REPORT\JUNE 2016 PRR\03 0033579 04 PRR JUNE 2016-RAC EAS EDIT.DOCX



FIGURES



**STEEL WINDS
FACILITY BCP
SITE**

**TECUMSEH
PROPERTY
BOUNDARY**

NOTE:
BASE MAP ADAPTED FROM A 1965
U.S.G.S. TOPOGRAPHIC MAPS
DOWNLOADED FROM <http://store.usgs.gov>



NO.	ISSUE/DESCRIPTION	BY	DATE

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PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
FIRST WIND ENERGY, LLC.

**STEEL WINDS I FACILITY
ROUTE 5
LACKAWANNA, NEW YORK**

**SITE MANAGEMENT PERIODIC REVIEW REPORT
JUNE 2016
LOCUS PLAN**

FIGURE

1

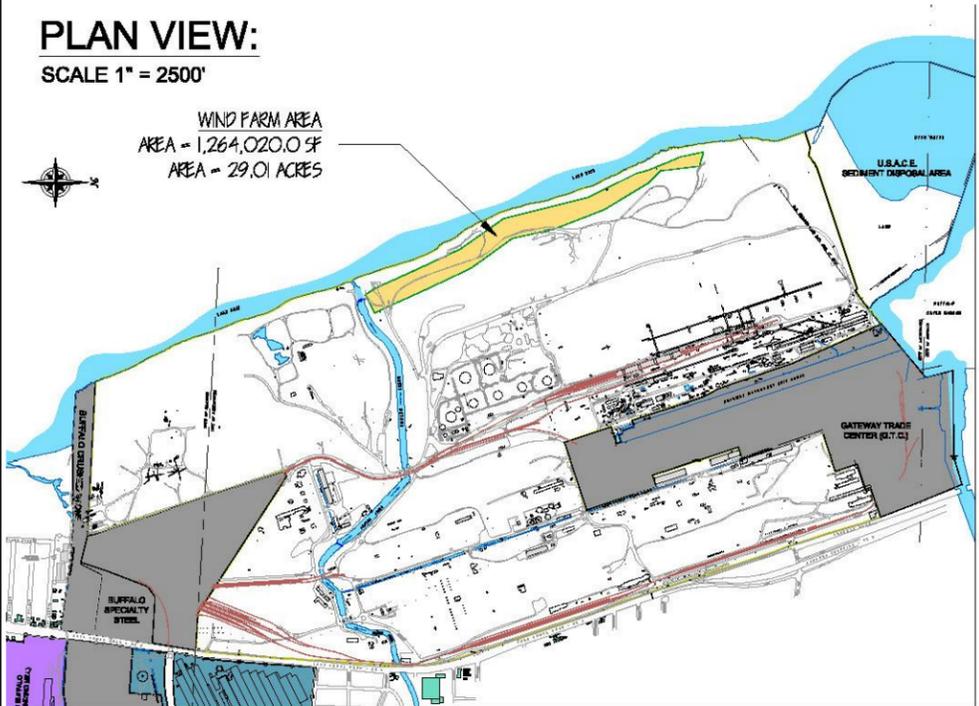
SHEET NO.
1 of 3

PROJ MGR:	DJT	REVIEWED BY:	CHECKED BY:	DATE	PROJECT NO.	REVISION NO.
DESIGNED BY:	DRAWN BY:	DEW	SCALE:	JUNE 2016	03.0033579.04	

PLAN VIEW:

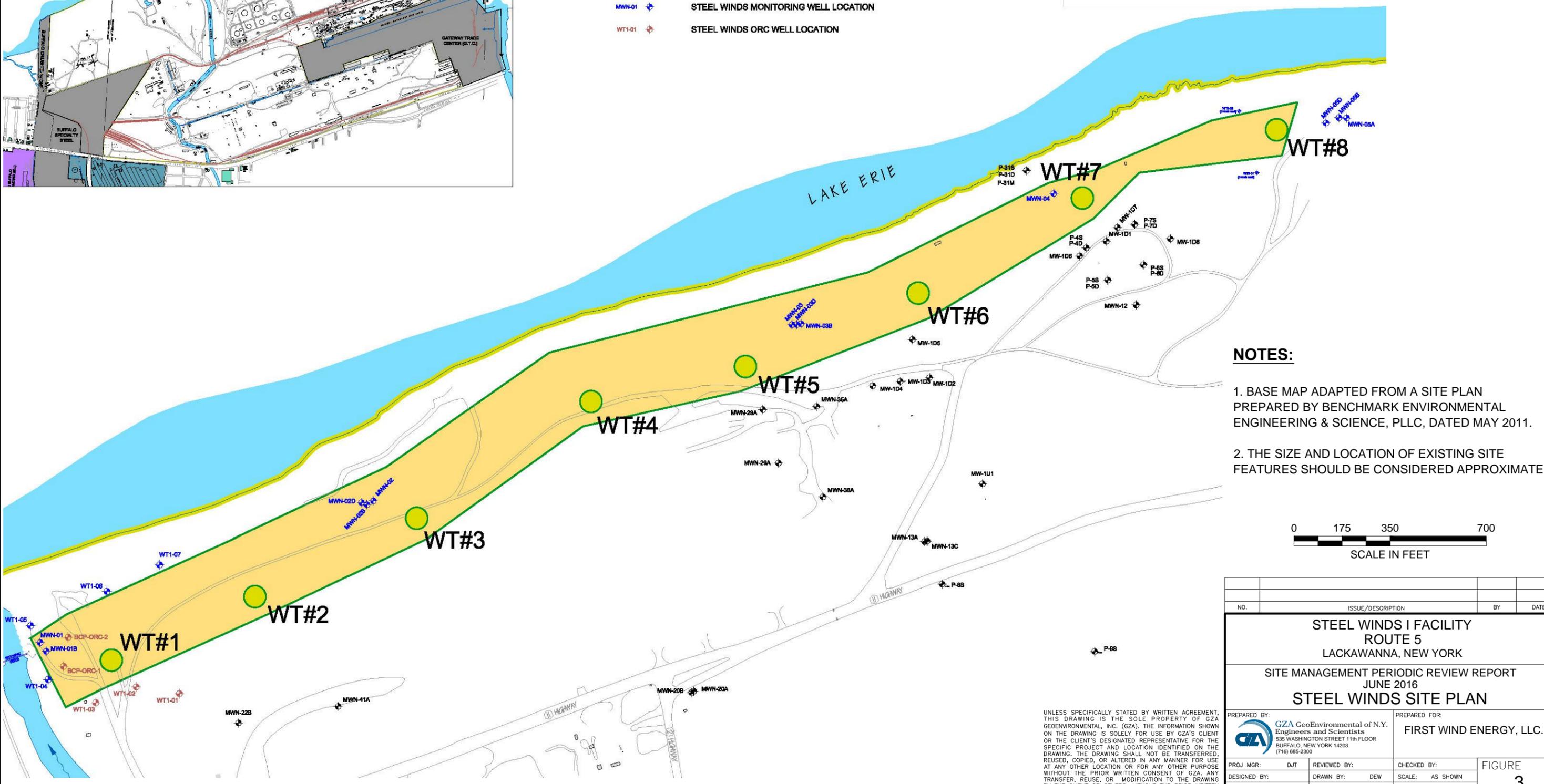
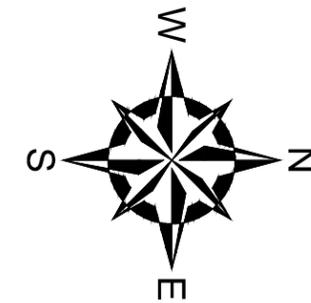
SCALE 1" = 2500'

WIND FARM AREA
AREA = 1,264,020.0 SF
AREA = 29.01 ACRES



LEGEND:

- TECUMSEH PROPERTY BOUNDARY
- EXISTING BUILDING / STRUCTURE
- RAILROAD TRACK
- STEEL WINDS FACILITY BCP SITE
- WT#1 WIND TURBINE (WT) LOCATION (8)
- MWN-22B EXISTING MONITORING WELL LOCATION
- MWN-01 STEEL WINDS MONITORING WELL LOCATION
- WT1-01 STEEL WINDS ORC WELL LOCATION



NOTES:

1. BASE MAP ADAPTED FROM A SITE PLAN PREPARED BY BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC, DATED MAY 2011.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.



NO.	ISSUE/DESCRIPTION	BY	DATE
STEEL WINDS I FACILITY ROUTE 5 LACKAWANNA, NEW YORK			
SITE MANAGEMENT PERIODIC REVIEW REPORT JUNE 2016 STEEL WINDS SITE PLAN			
PREPARED BY: GZA GeoEnvironmental of N.Y. Engineers and Scientists 535 WASHINGTON STREET 11th FLOOR BUFFALO, NEW YORK 14203 (716) 855-2300		PREPARED FOR: FIRST WIND ENERGY, LLC.	
PROJ MGR:	DJT	REVIEWED BY:	CHECKED BY:
DESIGNED BY:		DRAWN BY: DEW	SCALE: AS SHOWN
DATE	JUNE 2016	PROJECT NO.	03.0033579.04
		REVISION NO.	
			FIGURE 3 SHEET NO. 3 of 3

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© 2016 - GZA GeoEnvironmental of N.Y. GZA-16-0033579.04, First Wind Site and Annual OR Monitoring (RFR) 2016 (Figure 2 & 3 Site Plan) (Figure 3) June 29, 2016 - 8:58am daniel.wulf



ATTACHMENT A

LIMITATIONS



GEOHYDROLOGICAL LIMITATIONS

Use of Report

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

Standard of Care

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

Subsurface Conditions

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

Compliance with Codes and Regulations

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

Interpretation of Data

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

Additional Information

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

Additional Services

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.



ATTACHMENT B

INSTITUTIONAL AND ENGINEERING CONTROLS FORM



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1	
Site No.	C915205		
Site Name Tecumseh Redevelopment, Inc.-Steelwinds			
Site Address: 1951 HAMBURG TURNPIKE		Zip Code: 14218	
City/Town: Lackawanna			
County: Erie			
Site Acreage: 29.1			
Reporting Period: May 05, 2015 to May 05, 2016			
		YES	NO
1.	Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	If NO, include handwritten above or on a separate sheet.		
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5.	Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

		Box 2A
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		YES NO <input type="checkbox"/> <input checked="" type="checkbox"/>
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)		<input checked="" type="checkbox"/> <input type="checkbox"/>
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C915205		Box 3
Description of Institutional Controls		
<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
141.11-1-1.111	Tecumseh Redevelopment, Inc.	Site Management Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction
(i) Compliance with the Site Management Plan ("SMP") for the implemented remedy;		
(ii) Maintenance of the 12 inch soil cover system and vegetation over the Site;		
(iii) The groundwater beneath the Site cannot be used as a potable water source or for any other use without the prior written permission of the Department;		
(iv) Groundwater monitoring as specified in the SMP;		
(v) In the event that buildings are constructed, a Department approved evaluation of potential sub-slab vapor impacts will be required.		

		Box 4
Description of Engineering Controls		
<u>Parcel</u>	<u>Engineering Control</u>	
141.11-1-1.111	Cover System	

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES / NO
 /

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES / NO
 /

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915205

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Mike ANDRZEJCZAK at 1951 Hamburg Twp, Lackawanna, NY
print name print business address

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

7/14/16
Date

IC/EC CERTIFICATIONS

Box 7

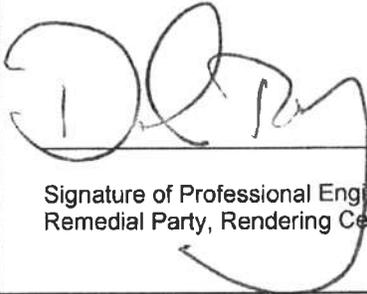
Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

GEA GEOTECHNICAL OF NEW YORK

I DANIEL TROY at 535 WASHINGTON ST. 11TH FL. BUFFALO, NY 14203
print name print business address

am certifying as a Professional Engineer for the STEEL WINDS (NIAGARAWIND POWER LLC)
(Owner or Remedial Party)



7/5/2016

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date



ATTACHMENT C

SITE PHOTOGRAPHS

Periodic Review Report

Steel Winds Site 2016
BCP Site No. C915205
Lackawanna, New York

File No. 03.0033579.04



View of monitoring well WT1-05.



View of turbines and cover system looking northerly.



View of cover system looking northerly.



Looking southerly towards WT1.



Cap west of WT 3 and 4. Note vehicle tracks in grassy area.



View of monitoring wells proximate to WT-3.

Periodic Review Report

Steel Winds Site 2016
BCP Site No. C915205
Lackawanna, New York

File No. 03.0033579.04



Access road and cover system north of WT-5.



Storage drums of oil impacted grass and gravel staged at area of extra transformer.



View of turbine array looking southerly.



View of soil cover cap east of access road looking southerly.



Cover system with evidence of recent vehicular traffic over grassy areas.



View of soil cover cap east of access road and WT-3 and 4, looking southerly.