## Document Receipt Information

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### RECEIVED

MAR 0 6 2025 UST DIVISION

February 27, 2025



Re: Corrective Action Plan - Revision 1 Westside Quick Stop 821 W. Parker Road Greenville, South Carolina SCDES UST ID #12430 EnviroSouth Job No. 3570

Dear Mr. Looper:

Mr. Adam Looper

2600 Bull Street

**UST Management Division** 

Columbia, South Carolina 29201

SCDES

On behalf of Shree Gajvakra, LLC, EnviroSouth, Inc. is pleased to submit the attached Corrective Action Plan – Revision 1 for the above-referenced facility in Greenville, South Carolina.

The purpose of this revision was to address comments received from your office regarding your review of the Corrective Action Plan submitted in December 2024.

If you have any questions concerning our submittal, please do not hesitate to call.

Sincerely,

EnviroSouth, Inc. UST Contractor No. 257

William H. Lyons, P.G. UST Coordinator and Senior Hydrogeologist S.C. Registration No. 2705

cc: Ankur Patel, Shree Gajvakra, LLC



February 27, 2025

Mr. Adam Looper SCDES UST Management Division 2600 Bull Street Columbia, South Carolina 29201

> Re: Corrective Action Plan - Revision 1 Westside Quick Stop 821 W. Parker Road Greenville, South Carolina SCDES UST ID #12430 EnviroSouth Job No. 3570

Dear Mr. Looper:

On behalf of Shree Gajvakra, LLC, EnviroSouth, Inc. is pleased to submit the attached Corrective Action Plan – Revision 1 for the above-referenced facility in Greenville, South Carolina.

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If you have any questions concerning our submittal, please do not hesitate to call.

Sincerely,

EnviroSouth, Inc. UST Contractor No. 257

WMM.Ho

William H. Lyons, P.G. UST Coordinator and Senior Hydrogeologist S.C. Registration No. 2705

cc: Ankur Patel, Shree Gajvakra, LLC

Prepared for:

Shree Gajvakra, LLC 205 Fairway Drive Laurens, South Carolina 29360

**CORRECTIVE ACTION PLAN – REVISION 1** 

WESTSIDE QUICK STOP 821 W. PARKER ROAD GREENVILLE, SOUTH CAROLINA

> Job No. 3570 SCDES UST ID #12430

> > Prepared by:

EnviroSouth, Inc. 3440 Augusta Road Greenville, South Carolina 29605

UST Contractor #257

February 27, 2025

A report prepared for:

Shree Gajvakra, LLC 205 Fairway Drive Laurens, South Carolina 29360

CORRECTIVE ACTION PLAN – REVISION 1 WESTSIDE QUICK STOP 821 W. PARKER ROAD GREENVILLE, SOUTH CAROLINA

EnviroSouth Job No. 3570 SCDES UST Permit No. 12430

Prepared by:

Wm.tb.L

William H. Lyons, P.G. Senior Hydrogeologist S.C. Registration No. 2705

Reviewed by:

) Cigm ) . memetri

Keigan K. Mennetti, P.E. Environmental Engineer S.C. License No. 40996

EnviroSouth, Inc. 3440 Augusta Road Greenville, South Carolina 29605 864-236-9010

UST Contractor #257

February 27, 2025

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REGENESIS TECHNICAL DESIGN

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REGENOX PART B SAFETY DATA SHEET

REAGENT SPECIFICATION SHEET

MEMO FROM STATE TOXICOLOGIST

TAX PARCEL INFORMATION

GANTT SCHEDULE

COST AGREEMENT

### INTRODUCTION

EnviroSouth, Inc. has completed this Corrective Action Plan (CAP) – Revision 1 for the Westside Quick Stop facility as requested by the South Carolina Department of Environmental Services (SCDES) in a letter dated October 11, 2024 and a phone conversation on February 24, 2025. This document outlines the plan for targeted-scope corrective action to achieve regulatory closure for release #1 and release #2 at the Westside Quick Stop facility.

The Westside Quick Stop facility is located at 821 W. Parker Road, in the city of Greenville, Greenville County, South Carolina at the location displayed on Figure 1. The facility is located in a light commercial/residential corridor at the southern quadrant of the intersection of W. Parker Road with W. Blue Ridge Drive. The site is an active gasoline station that maintains four (4) regulated underground storage tanks (USTs) and associated piping and dispensers. The site has two (2) documented and open petroleum UST releases. Release #1 was reported in June 2012 and release #2 was reported in October 2012. Both releases are the subject of this targeted scope corrective action. An unnamed tributary of Long Branch is also located approximately 500 feet to the southeast of the site.

### SUMMARY OF ASSESSMENT

An Initial Groundwater Assessment (IGWA), Tier I Assessment, and an initial Tier II Assessment were completed in response to these two (2) releases. Because of the presence of free-phase product (gasoline) in monitoring well MW-1 during a May 2016 groundwater gauging event conducted by the South Carolina Department of Environmental Services (SCDES; formerly known as the SCDHEC), an additional Tier II Assessment and two 96-hour Aggressive Fluid Vapor Recovery/Mobile Multi-Phase Extraction (AFVR/MMPE) events were completed at the site in early 2017. Additional 96-hour AFVR/MMPE events were completed at the site in May 2018, January 2020, February 2021, March 2021, February 2022, and March 2022. Four (4) additional 96-hour AFVR/MMPE events and a comprehensive groundwater sampling event were performed between September 2023 to October 2023. A Comprehensive Groundwater Monitoring report detailing these field activities was submitted in December 2023.

After completing twelve (12) 96-hour AFVR events (as detailed above), widespread free-phase product remains at thicknesses up to 1.14 feet (November 2023).



While product thickness reductions have been observed, these releases cannot be closed until product thicknesses are reduced to less than 0.01 feet and dissolved contaminant concentrations are below site-specific target levels (SSTLs). Based on the persistence of free-phase product, it has become evident that an alternative, more aggressive, approach to reach closure is needed. Therefore, the SCDES calculated SSTLs and requested a Strategy to Closure in a letter dated July 19, 2024.

A Strategy to Closure was submitted to the SCDES on August 20, 2024. Following the Strategy to Closure submittal, a meeting with the SCDES to discuss the Strategy to Closure and requested changes from the department occurred. Following the meeting, the SCDES requested a Corrective Action Plan (CAP) in a letter dated October 11, 2024 and a revision to the CAP in a phone conversation on February 24, 2025.

### PROPOSED CORRECTIVE ACTION

### Permitting

A SCDES underground injection control (UIC) permit application has been prepared and was previously submitted to the UIC program at the SCDES. A memo from the State Toxicologist's office referencing the safety of RegenOx® for the intended purpose is also attached.

### **Recovery Well Installation**

Prior to injection and AFVR activities, five (5) 4-inch diameter recovery wells (RW-4, RW-5, RW-6, RW-7, and RW-8) will be installed at the locations shown on the attached Figure 2. The recovery wells will be completed by a South Carolina licensed driller using decontaminated hollow stem augers to a depth of 42 feet below ground surface (bgs) with 4-inch diameter schedule 40 casing and 20-foot sections of 0.010-inch slotted screen. A recovery well schematic is included as Figure 3.

The recovery wells will be completed at grade with a steel manhole cover and concrete pad. Water well record forms and development forms for each well will be completed by the licensed driller and submitted to the department in the first report following the respective installation of the recovery wells.



### Well Abandonment

Monitoring well MW-7 will be abandoned during the recovery well installation detailed above. This well has been obstructed during the past two (2) sampling events, remains currently obstructed, and has not had concentrations of petroleum compounds detected at concentrations of regulatory concern since 2015. Monitoring well MW-28, immediately to the northeast of well MW-7, will remain and continues to define the plume in this direction as a "clean" well. MW-7 will be abandoned in accordance with the South Carolina Well Standards and Regulations R. 61-71 by pressure injecting neat cement grout from the bottom up. A well abandonment record and photos will be included in the first report.

### **Baseline Monitoring**

All existing monitoring wells will be sampled during a baseline comprehensive sampling event prior to injection and AFVR activities at the site. Surface water SW-1 (Figure 2) will also be sampled during the event. Recovery wells RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, and RW-8 will be gauged only for the presence of free-phase product during the baseline sampling event. This data will be compared to the interim performance monitoring data (as detailed in a section below) and used to evaluate the effectiveness of the source area treatment. Samples will be analyzed for benzene, toluene, ethylbenzene, xylenes (total), methyl-tert-butyl ether, naphthalene (BTEXMN), 1,2-dichloroethane (1,2-DCA), and eight (8) oxygenates by EPA method 8260 and 1,2-dibromoethane (EDB) by EPA method 8011.

### Source Area Groundwater Treatment Approach and Execution Details

The remediation strategy proposed in the source area surficial aquifer is by enhanced AFVR, which will consist of three (3) rounds of in-situ chemical oxidation with each round being followed by three (3) 96-hour AFVR events for a total of nine (9) 96-hour AFVR events. A solution of water and RegenOx® placed by temporary underground injection wells will be utilized to oxidize and de-sorb the petroleum hydrocarbons in the source area. Each of the three (3) injection events will utilize forty-nine (49) temporary injection wells and will be spaced approximately ten (10) weeks apart. Each series of three (3) enhanced AFVR events will begin approximately three (3) weeks following their respective injection events and will occur over a



three (3) week time period. The AFVR events will utilize recovery wells RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, and RW-8 on a rotating schedule. Please see the attached Gannt Schedule for a more detailed treatment schedule as well as which wells will be utilized during which AFVR event. The treatment area is approximately 2,400 square feet, and the injection interval extends from 21 to 42 feet bgs. Approximately 32,760 pounds of RegenOx® mixed with 46,108 gallons of water will be necessary to meet the stoichiometric demands of the planned enhanced AFVR approach.

The temporary injection wells will be installed using a Geoprobe 7822DT drill rig with 1.50-inch diameter probe rods and a five-foot injection rod utilized in a bottom-up injection fashion. Figure 4 is a schematic diagram showing the general diagram of all injection well locations. Figures 5 through 7 are proposed temporary injection well locations per round. Each injection well borehole will be properly abandoned using pressure-injected neat cement grout immediately upon completion.

### Interim Performance Monitoring

Monitoring wells MW-X, MW-XR, MW-1, MW-2, MW-12, MW-12I, MW-21, MW-24, and MW-25 will be sampled during two (2) interim performance monitoring events to evaluate the effectiveness of each series of three (3) enhanced AFVR events. Surface water SW-1 (Figure 2) will also be sampled during the events. Recovery wells RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, and RW-8 will be gauged only for the presence of free-phase product (gasoline) during both interim performance monitoring events because of their usage during the AFVR events. The interim sampling events will take place approximately two (2) weeks after the end of the 1<sup>st</sup> AFVR event series and 2<sup>nd</sup> AFVR event series. Each well will be gauged for BTEXMN, 1,2-DCA, and eight (8) oxygenates by EPA method 8260 and EDB by EPA method 8011. Sample analysis will be expedited on a two-day turnaround time to minimize loss of injectate efficacy between rounds.

### Groundwater Monitoring

It is anticipated that SSTLs will be attained within six (6) months after enhanced AFVR activities



are completed. Two (2) limited quarterly sampling events will be performed utilizing select wells (wells MW-1, MW-2, MW-3, MW-4, MW-4I, MW-12, MW-12I, MW-14, MW-14I, MW-17, MW-17I, MW-20, MW-21, MW-22, MW-22I, MW-24, MW-25, MW-26, MW-26I, MW-X, and MW-XR). Surface water SW-1 (Figure 2) will also be sampled during the limited quarterly sampling events.

Two (2) comprehensive sampling events utilizing all remaining wells and a surface water sample (SW-1) will be performed in the third and fourth quarters after remedial activities are completed. All samples collected during the limited and comprehensive sampling quarterly events will be analyzed for benzene, toluene, ethylbenzene, xylenes (total), methyl-tert-butyl-ether, naphthalene, 1,2-dichloroethane, and eight (8) oxygenates by EPA method 8260 and 1,2-dibromoethane by EPA method 8011.

Recovery wells RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, and RW-8 will be gauged only for the presence of free-phase product (gasoline) during all post-remedial activity sampling events because of their usage during the AFVR events.

Because of the high mass of petroleum hydrocarbons present in the source area, 100% reduction is not expected. Residual hydrocarbons, including those listed above are expected to remain at levels lower than the SSTLs. The three (3) proposed applications are expected to reduce the starting petroleum hydrocarbon concentrations below SSTLs.

Contaminant migration as a result of the planned injection activities is not expected to occur. No potential exposure pathways for humans, animals, or the environment are expected. This opinion is based on the fact that the injection area is located outside of the footprint of any structures and the injection depth interval is from 21 to 42 feet bgs. The nearest receptor is a creek located approximately 500 feet to the southeast of the site.

Following the quarterly groundwater sampling events detailed above, confirmation of continuing groundwater concentrations below SSTLs, and SCDES approval, all monitoring and recovery wells at the site will be properly abandoned by a South Carolina licensed driller.



### **Contingency Plan**

In the event that interim performance monitoring indicates the planned enhanced AFVR is insufficient to achieve site-closure, alternative techniques will be utilized with remaining approved funds to reach closure. EnviroSouth will submit addendums to the Corrective Action Plan – Revision 1 and Underground Injection Control Permit, as necessary, in the event that a contingency plan is required.

### Spill Prevention

The sodium percarbonate mixture will come in two (2) separate packings. Part A of the injectate will be packaged in sealed 40-pound plastic bags and not opened until ready for mixing. Part B of the injectate will be packaged in sealed 400-pound drums and not opened until ready for mixing. The solution of water and sodium percarbonate will be contained in plastic tanks/totes with secured lids during the mixing and injection process. A spill containment kit will be onsite at all times during the operation. The kit will contain absorbent pads, socks and booms, absorbent clay, and a wet-vac capable of capturing any spills or leaks that may arise during the operation.

### Waste Materials

Sodium percarbonate bags will be emptied of all contents and placed in heavy-duty contractor trash bags daily for future disposal at an approved landfill.

Electron acceptor drums will be emptied of all contents and disposed of at an approved landfill.

Spent absorbent pads, socks, booms, and absorbent clay necessary to manage spills or leaks will be managed as investigation derived waste (IDW) and will be placed in labeled 55-gallon steel drums and disposed under manifest control at an approved landfill.

### Equipment Deactivation

After completion of each injection application, all equipment brought to the site will be removed.



### **Parcel Information**

The subject property and adjoining properties parcel information are attached.

### Site-Specific Health and Safety Plan

A site-specific health and safety plan for this work was included in the previous revision.

### **Pertinent Contacts**

### South Carolina Department of Environmental Services

SCDES Project Manager:	Mr. Adam Looper
Telephone Number:	(803) 898-0631

### Environmental Consultant

Contractor:	EnviroSouth
Site Contact:	Mr. William Lyons, P.G.
Telephone Number:	(864) 979-7862
Address:	3440 Augusta Road
	Greenville, South Carolina 29605

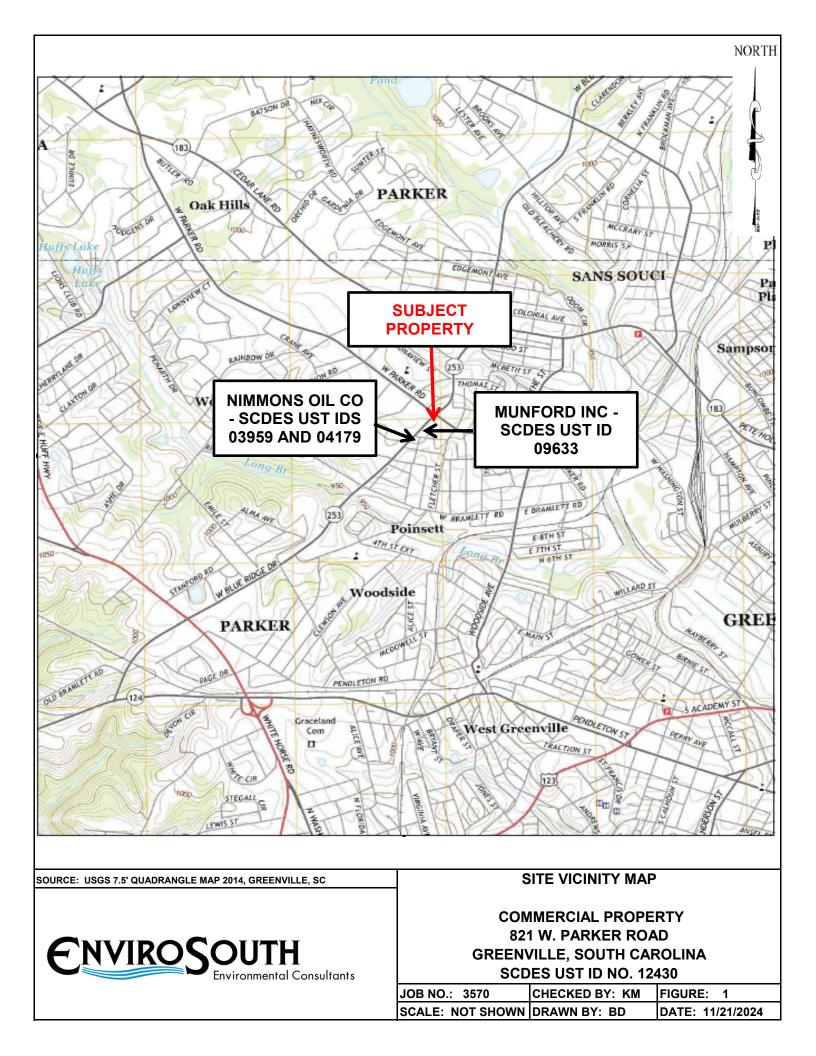
### Chemical Manufacturer

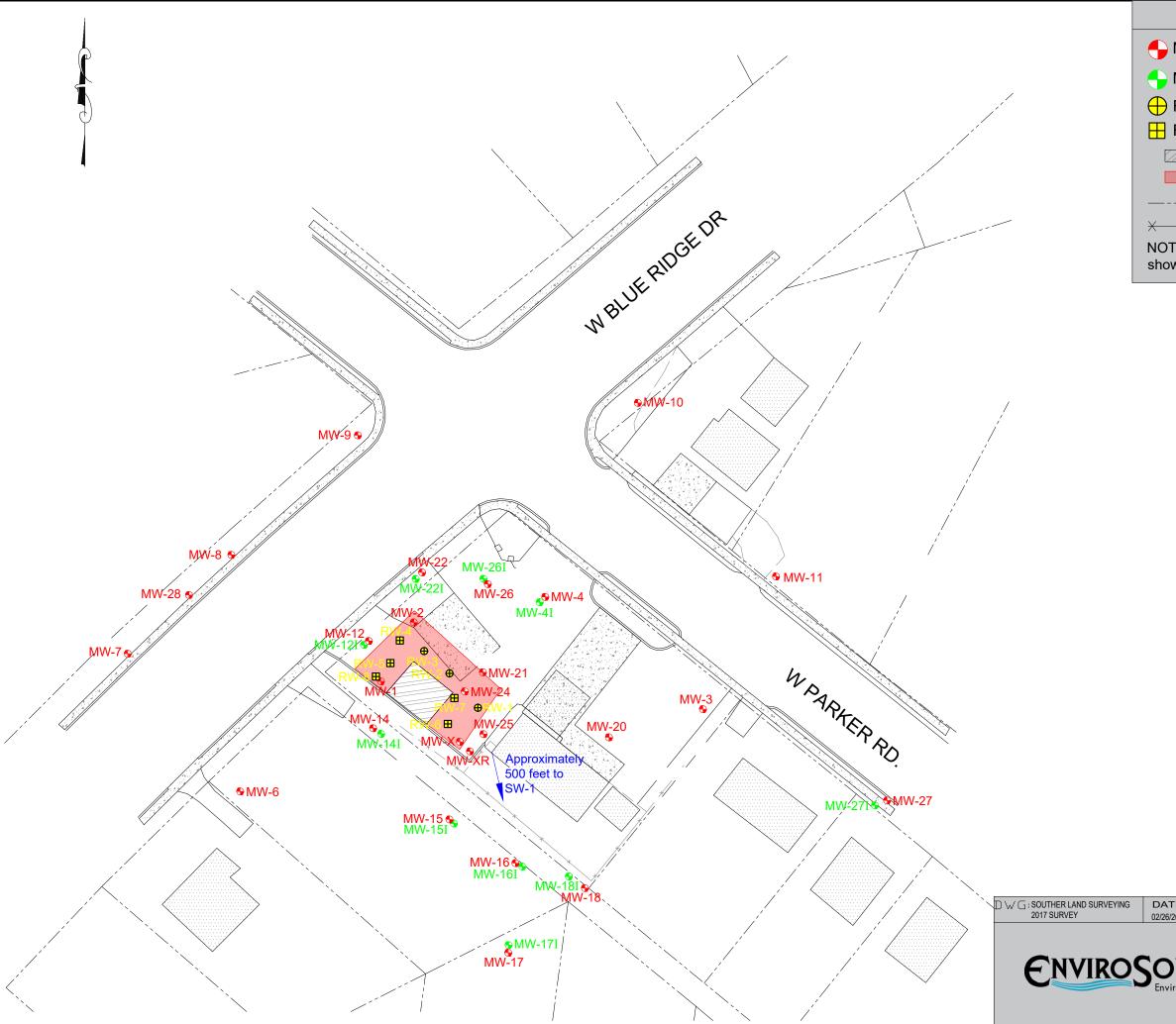
Injectate:	RegenOx®
Provider:	Regenesis
Contact:	Mr. Daniel Pile
Telephone:	(470) 757-8560
Address:	1101 Calle Sombra
	San Clemente, California 92673

### Implementation Schedule

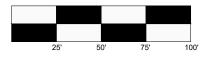
A revised Gantt chart showing the proposed implementation schedule is attached.



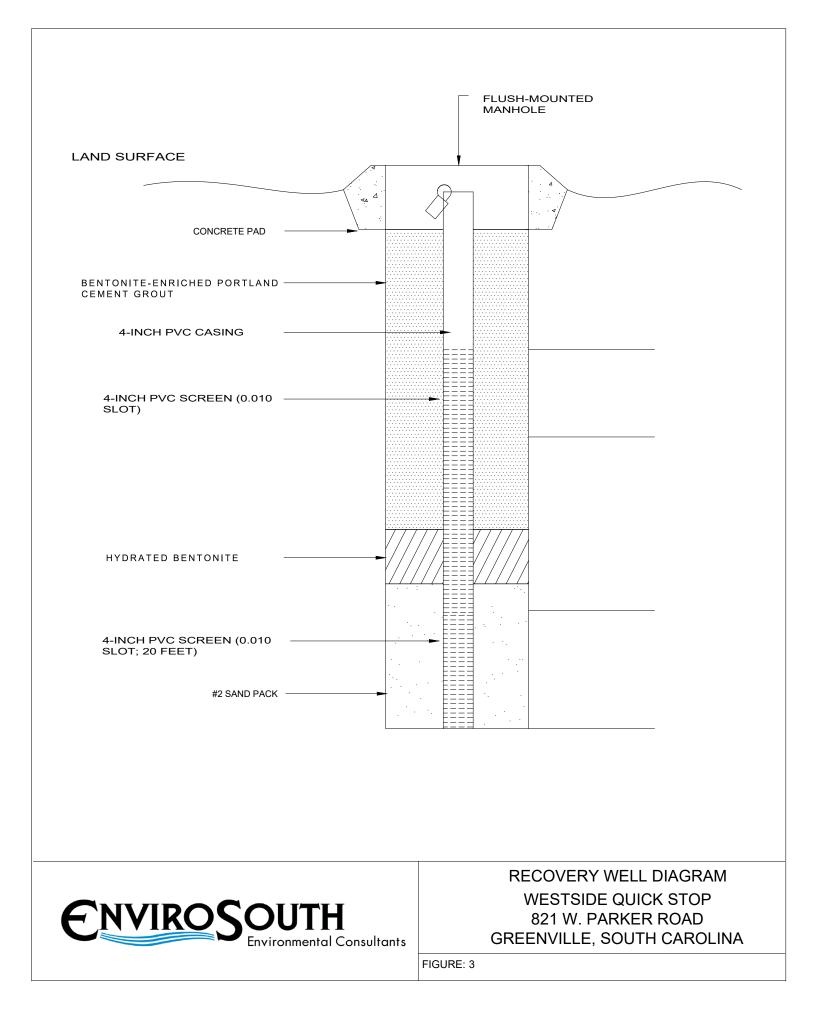


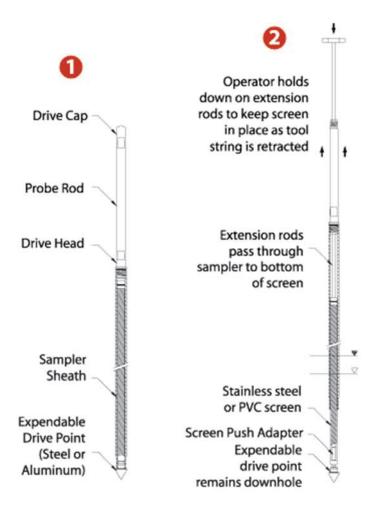


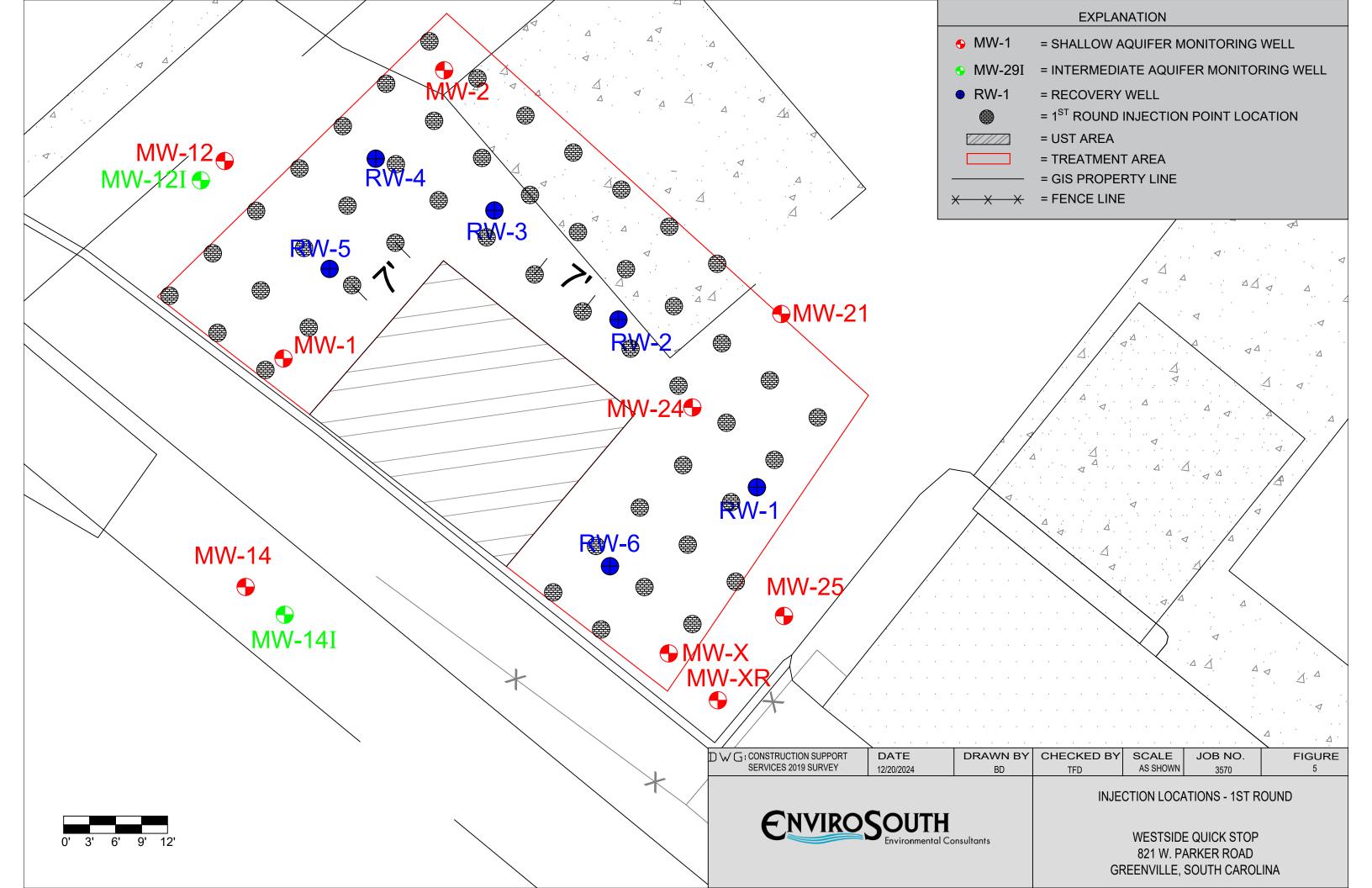
	EXPLANATION		
MW-1	= SHALLOW AQUIFER MONITORING WELL		
MW-29I	= INTERMEDIATE AQUIFER MONITORING WELL		
RW-1	= RECOVERY WELL		
RW-4	= PROPOSED RECOVERY WELL		
	= UST AREA		
	= TREATMENT ZONE		
	= GIS PROPERTY LINE		
— <u>X</u> —X	= FENCE LINE		
TE: Wells MW-5, MW-19, MW-19I, MW-23, and MW-23I are not wn on map because they were previously destroyed or abandoned.			

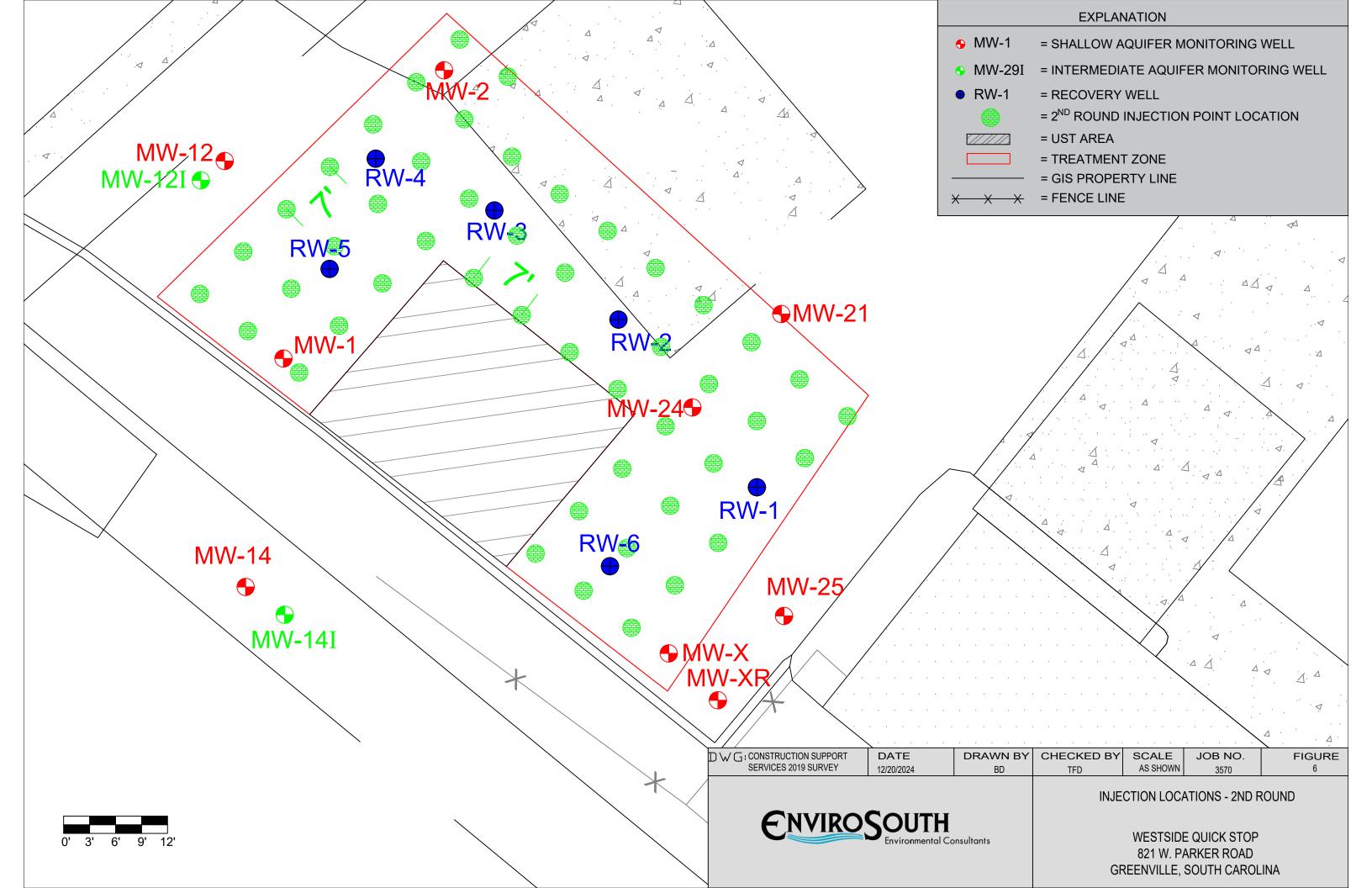


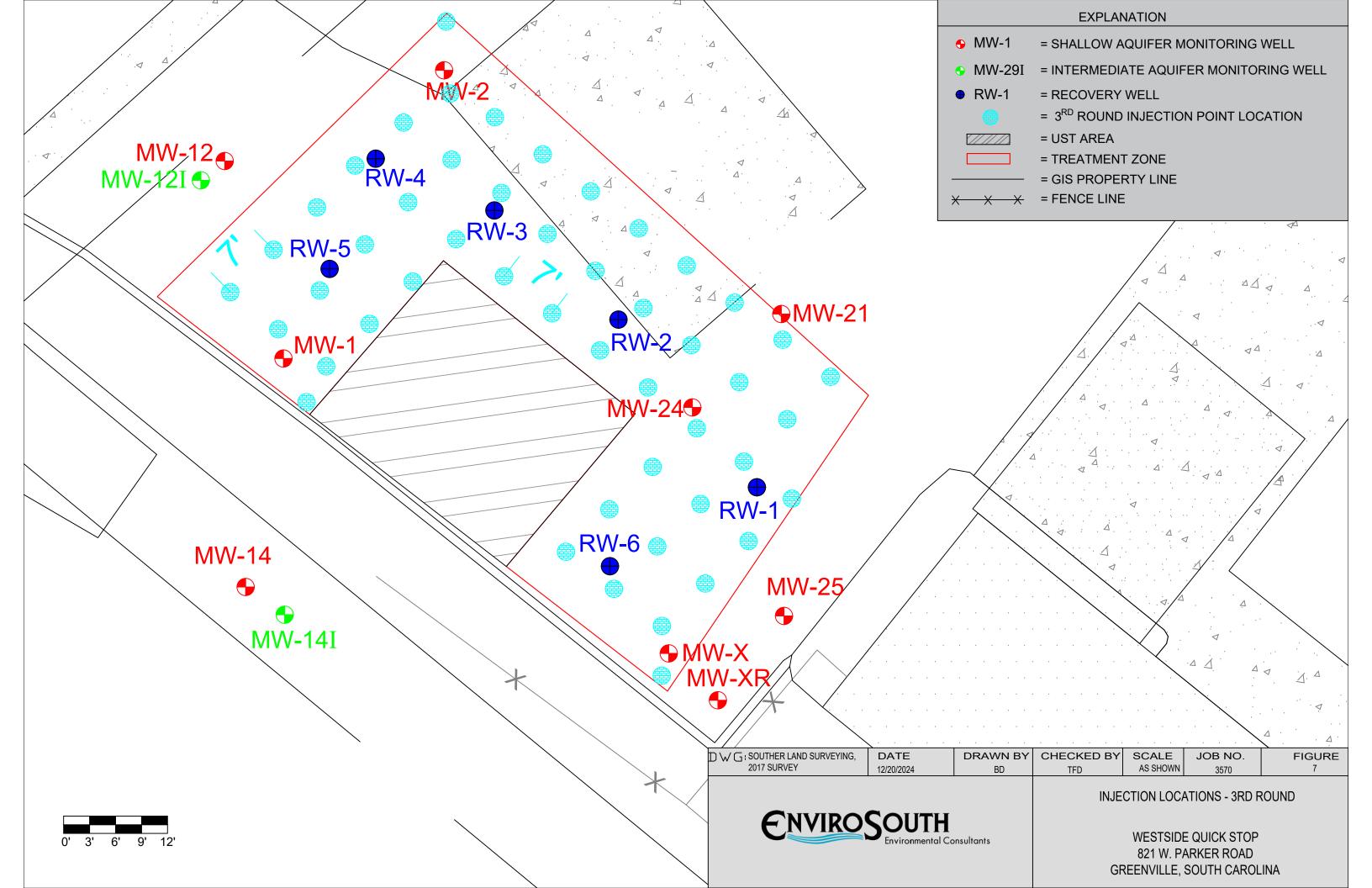
TE	DRAWN BY	CHECKED BY	SCALE	JOB NO.	FIGURE
6/2025	BD	TFD	AS SHOWN	3570	2
			WELL I WESTSIDE 821 W. P/	ROPOSED REC LOCATIONS E QUICK STOP ARKER ROAD SOUTH CAROL	













Technology-Based Solutions for the Environment

**PROJECT NAME** 

# Westside Quick Stop

### **Preliminary Cost Proposal**

**Rev 01** 

### **PREPARED FOR**

EnviroSouth William Lyons wlyons@envirosouth.com

### **PREPARED BY**

REGENESIS

Daniel Pile dpile@regenesis.com

lan Doliana idoliana@regenesis.com

August 26, 2024

## **Project Summary**

REGENESIS appreciates the opportunity to provide EnviroSouth our remedial design and cost estimate for the Westside Quick Stop project. This proposal includes an overview of our proposed solution, the project goals, technologies proposed, application design summary table and a treatment area map.

### **Proposed Solution**

We propose treatment with RegenOx to address residual petroleum hydrocarbon impacts within the defined treatment area. These reagents will be applied via direct push injection. We are also recommending extraction events following each application. The target extraction volume should be approximately 120% of each event's injection volume and should occur 2-3 weeks after each event. Reagent quantities are estimated based on provided site information. Adjustments may be needed after further investigation.

### **Project Goals**

- Remove NAPL from MW-1, RW-1, RW-2, and MW-24
- Reduce groundwater concentrations to below solubility limits

### **Technologies Proposed**

• <u>RegenOx®</u>

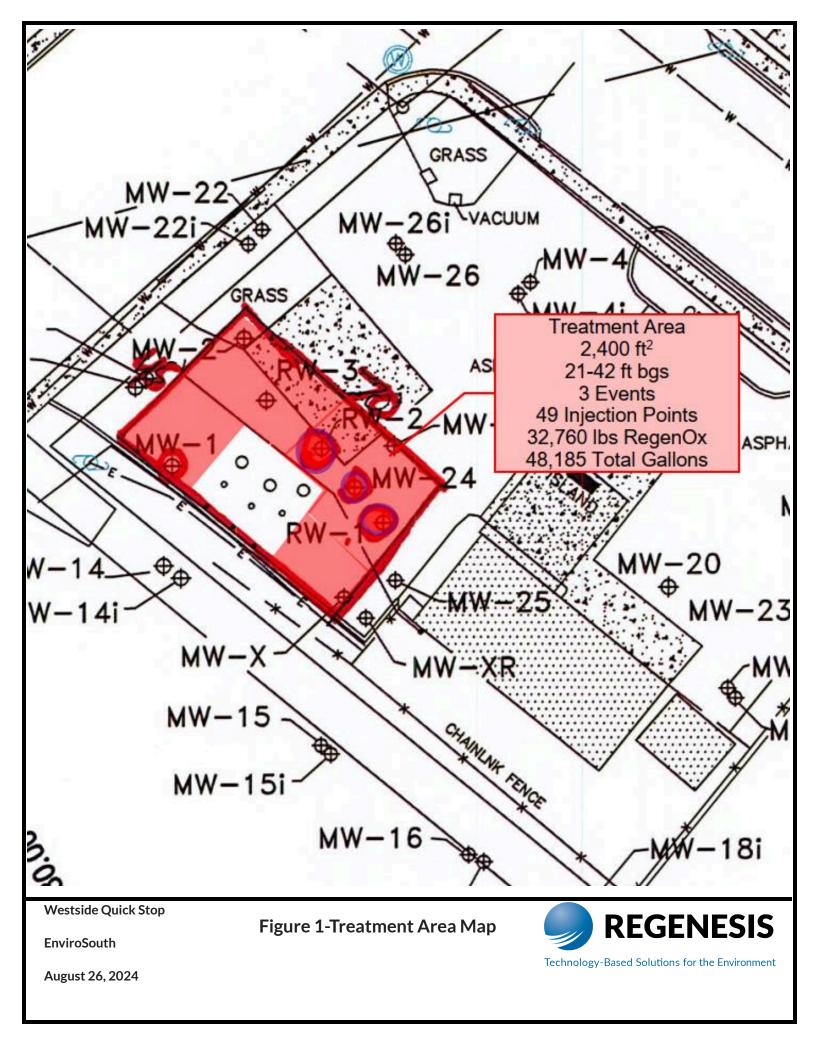
Click above to access product specification sheets

### Technical Resources

- <u>RegenOx® Technical Bulletin: Compatibility with</u> <u>Underground Storage Structures and Pipes</u>
- <u>RegenOx® Technical Bulletin: Increased Solubility</u> <u>Effects When Treating Total Petroleum Hydrocarbons</u>
- <u>RegenOx® Technical Bulletin: Chemical Oxidation of</u> <u>Petroleum Hydrocarbons in High Total Organic (TOC)</u> <u>Environments</u>

### **Design Summary**

Treatment Area					
Design Parameters	Unit	Value			
Treatment Area	ft sq.	2,400			
Top Treat Depth (ft. bgs)		21			
Bottom Treat Depth (ft. bgs)		42			
Vertical Treatment Interval	ft	21			
Soil Type		Sandy silt			
Porosity	cm3/cm3	0.40			
Effective Porosity	cm3/cm3	0.15			
Hydraulic Gradient	ft/ft	0.01			
GW Velocity	ft/yr	60.88			
Application Summary					
Spacing Within Rows (ft)		7			
Spacing Between Rows (ft)		7			
Injection Points (per app.)		49			
Number of Applications		3			
RegenOx Part A Solution %		6%			
Eff. Pore Voume Occupancy		85%			
Product Dosage					
RegenOx Part A	lbs	24,560			
RegenOx Part B	lbs	8,200			
Water Required	gallons	46,108			
Total Volume Applied	gallons	48,185			



# **Technical Approach**

Our review of the site data indicates that non-aqueous phase liquids (NAPLs) are present. RegenOx is an advanced chemical oxidation technology that destroys contaminants through powerful, yet controlled chemical reactions. This product maximizes *in-situ* performance while using a solid alkaline oxidant that employs a sodium percarbonate complex with a multi-part catalytic formula. RegenOx directly oxidizes contaminants while its unique catalytic component generates a range of highly oxidizing free radicals that rapidly and effectively destroy a range of target contaminants including both petroleum hydrocarbons and chlorinated compounds. The secondary ability of RegenOx is to increase the desorption rates of hydrocarbons bound in saturated soil and make them available for more efficient and rapid treatment using a range of mass recovery technologies including multi-phase extraction as proposed here. Each RegenOx application is expected to result in oxidant longevity of 2 to 3 weeks, while the activator will persist longer. For this reason, multiple applications, at an application event spacing of approximately 2 to 3 weeks, coupled with an enhanced recovery technology, are recommended for use in this project.

Due to the unique surfactant characteristics of RegenOx, which is designed to allow for mass transfer from sorbed to dissolved phase and/or free-phase, we recommend that use of this product be coupled with multi-phase extraction (MPE) at this site. MPE is best conducted using a mobile vacuum tanker truck or similar high-vacuum system which can quickly remove dissolved and free-phase mass. The events should be conducted approximately 2-3 weeks after each RegenOx application (i.e., immediately prior to each subsequent RegenOx application). Each extraction event should remove approximately 120% of the injection volume from each event.

### **Treatment Zone Design Parameters**

The table below summarizes pertinent treatment zone information used for developing the remedial application design. Where site-specific data were unavailable, default values based on soil type were used.

Target Treatment Zone (TTZ) Info	Unit	Value
Treatment Area	ft <sup>2</sup>	2,400
Top Treatment Depth	ft	21.0
Bottom Treatment Depth	ft	42.0
Vertical Treatment Interval	ft	21.0
Treatment Zone Volume	ft <sup>3</sup>	50,400
Treatment Zone Volume	су	1,867
Soil Type		Sandy silt
Porosity	cm <sup>3</sup> /cm <sup>3</sup>	0.40
Effective Porosity	cm <sup>3</sup> /cm <sup>3</sup>	0.15
Treatment Zone Pore Volume	gals	150,807
Treatment Zone Effective Pore Volume	gals	56,553
Soil Density	g/cm <sup>3</sup>	1.67
Hydraulic Conductivity	ft/day	5.0
Hydraulic Gradient	ft/ft	0.005
GW Velocity	ft/yr	61





### PRICE QUOTATION (Valid for only 30 days from date of quote)\*

Contact Name	William Lyons	Account Name	EnviroSouth
Created Date	11/21/2024	Prepared By	Aaron Hazen
Quote Name	40840 - idoli77597 - Westside Quick Stop - SC - Event 1	Quote Number	00040840

Thank you for your interest in Regenesis Products. Please find below the sales price and related shipping, handling and tax costs per your request.

Please note that a Price Quotation is not a sales order. To place an order please contact our customer service department at 949 366-8000 or order online at http://www.regenesis.com/order.

Products					
Product Code	Product		Quantity	v Sales Price	Total Price
2200	RegenOx® Part A Bags (40 lb) (RBP)		8,200.00	USD 3.85	USD 31,570.00
2210	RegenOx® Part B Pails (40 lb) (RBP)		2,760.00	USD 3.85	USD 10,626.00
FRE001	Freight		1.00	USD 2,955.78	USD 2,955.78
Special Delivery Instructions	R+L Carriers (1-2 transit days) - Delivery Appointment Required - Lift Gate & Pallet Jack at delivery Quote valid for 90 days - expires 2/19/2025 -	Subtota Tax Grand ⊺		USD 45,151.78 USD 2,531.76 USD 47,683.54	
Payment Terms	Net 90				

### F.O.B. Origin

**PAYMENT TERMS**: A monthly finance fee of 1.5% will be applied to accounts over the listed payment terms. Volume discounts pricing will be rescinded on accounts outstanding over 90 days. An early payment discount of 1.5% NET 10, is available for cash or check payment only. Discount applied to product, services, and any applicable sales tax. Discount does not apply to any freight and handling. We accept MasterCard, Visa, and American Express.

Sales Tax: a valid Reseller Certificate or Tax Exempt Certificate must be presented to the Customer Service Department at the time an order is placed. Sales tax charges on the quote/ sales confirmations are estimated based on delivery location. The actual sales tax rate is calculated at the time of invoice. Liability for all taxes and import or export duties, imposed by any city, state, federal, or other government authority, shall be assumed and paid by the buyer. Buyer further agrees to defend and indemnify seller against any and all liabilities for such taxes or duties and legal fees or cost incurred by seller in connection therewith.

**RETURN POLICY**: All requests to return product must be pre-approved by Regenesis. A 15% re-stocking fee will be charged for all returned goods. Return freight must be prepaid and product must be in saleable condition. No product will be accepted for return after of 90 days from original delivery date.



SHIPPING POLICY: the following terms and conditions shall apply

- 1. As a service Regenesis will assist and coordinate with independent trucking brokers/carriers the delivery of product. Regenesis will also coordinate a "will call" pick up at one of its warehouse locations with a customer's freight carrier of choice. Please note that product availability will vary by warehouse location.
- All quoted rates and delivery dates are based on Standard Delivery Terms, which allow or provide only an estimated date and time of delivery of product to a site. Delivery times will vary per carrier. A guaranteed delivery may be available for an additional cost and must be requested when placing an order. If the carrier fails to meet the Guaranteed delivery per the specified date and time, *per the carrier's terms and conditions*, carrier will waive this additional charge.
- 3. Shipping /Freight costs are estimates and may change pending requirement of any additional equipment or change in volume or delivery instructions at time of placing your order.

**SHIPPING DISCLAIMER**: Regenesis is not in the business of shipping or transportation of its products. We will strive to assist in meeting shipping requirements, but please realize that all shipments are subject to carrier's availability, weather, mechanical problems, or other unforeseen circumstances. As a result, Regenesis cannot be held responsible for project/site costs incurred due to shipping related delays.

Handling Fee: Handling Fees may be subject to sales tax based on point of delivery.

**Freight** Freight charges are estimates and actual freight charges are calculated at the time of invoice. Additional freight charges may be assessed for any accessorial (can include, but not limited to lift gate and pallet jack at delivery, inside delivery, time definite deliveries, and delivery appointments) requested at the time of delivery. Please communicate any requirements for delivery with the customer service department at the time the order is placed. Standard delivery is 8am-5pm, Monday – Friday. \*Full truck rates are valid for 7 days from date of quote.



#### PRICE QUOTATION (Valid for only 30 days from date of quote)\*

Contact NameWilliam LyonsAccount NameEnviroSouthCreated Date11/21/2024Prepared ByAaron HazenQuote Name40841 - idoli77597 - Westside Quick Stop - SC -<br/>Event 2Quote Number00040841

Thank you for your interest in Regenesis Products. Please find below the sales price and related shipping, handling and tax costs per your request.

Please note that a Price Quotation is not a sales order. To place an order please contact our customer service department at 949 366-8000 or order online at http://www.regenesis.com/order.

Products					
Product Code	Product		Quantity	v Sales Price	Total Price
2200	RegenOx® Part A Bags (40 lb) (RBP)		8,200.00	USD 3.85	USD 31,570.00
2210	RegenOx® Part B Pails (40 lb) (RBP)		2,760.00	USD 3.85	USD 10,626.00
FRE001	Freight		1.00	USD 2,955.78	USD 2,955.78
Special Delivery Instructions	R+L Carriers (1-2 transit days) - Delivery Appointment Required - Lift Gate & Pallet Jack at delivery Quote valid for 90 days - expires 2/19/2025 -	Subtota Tax Grand ⊺		USD 45,151.78 USD 2,531.76 USD 47,683.54	
Payment Terms	Net 90				

### F.O.B. Origin

**PAYMENT TERMS**: A monthly finance fee of 1.5% will be applied to accounts over the listed payment terms. Volume discounts pricing will be rescinded on accounts outstanding over 90 days. An early payment discount of 1.5% NET 10, is available for cash or check payment only. Discount applied to product, services, and any applicable sales tax. Discount does not apply to any freight and handling. We accept MasterCard, Visa, and American Express.

Sales Tax: a valid Reseller Certificate or Tax Exempt Certificate must be presented to the Customer Service Department at the time an order is placed. Sales tax charges on the quote/ sales confirmations are estimated based on delivery location. The actual sales tax rate is calculated at the time of invoice. Liability for all taxes and import or export duties, imposed by any city, state, federal, or other government authority, shall be assumed and paid by the buyer. Buyer further agrees to defend and indemnify seller against any and all liabilities for such taxes or duties and legal fees or cost incurred by seller in connection therewith.

**RETURN POLICY**: All requests to return product must be pre-approved by Regenesis. A 15% re-stocking fee will be charged for all returned goods. Return freight must be prepaid and product must be in saleable condition. No product will be accepted for return after of 90 days from original delivery date.



SHIPPING POLICY: the following terms and conditions shall apply

- 1. As a service Regenesis will assist and coordinate with independent trucking brokers/carriers the delivery of product. Regenesis will also coordinate a "will call" pick up at one of its warehouse locations with a customer's freight carrier of choice. Please note that product availability will vary by warehouse location.
- All quoted rates and delivery dates are based on Standard Delivery Terms, which allow or provide only an estimated date and time of delivery of product to a site. Delivery times will vary per carrier. A guaranteed delivery may be available for an additional cost and must be requested when placing an order. If the carrier fails to meet the Guaranteed delivery per the specified date and time, *per the carrier's terms and conditions*, carrier will waive this additional charge.
- 3. Shipping /Freight costs are estimates and may change pending requirement of any additional equipment or change in volume or delivery instructions at time of placing your order.

**SHIPPING DISCLAIMER**: Regenesis is not in the business of shipping or transportation of its products. We will strive to assist in meeting shipping requirements, but please realize that all shipments are subject to carrier's availability, weather, mechanical problems, or other unforeseen circumstances. As a result, Regenesis cannot be held responsible for project/site costs incurred due to shipping related delays.

Handling Fee: Handling Fees may be subject to sales tax based on point of delivery.

**Freight** Freight charges are estimates and actual freight charges are calculated at the time of invoice. Additional freight charges may be assessed for any accessorial (can include, but not limited to lift gate and pallet jack at delivery, inside delivery, time definite deliveries, and delivery appointments) requested at the time of delivery. Please communicate any requirements for delivery with the customer service department at the time the order is placed. Standard delivery is 8am-5pm, Monday – Friday. \*Full truck rates are valid for 7 days from date of quote.



### **PRICE QUOTATION** (Valid for only 30 days from date of quote)\*

Contact NameWilliam LyonsAccount NameEnviroSouthCreated Date11/21/2024Prepared ByAaron HazenQuote Name40842 - idoli77597 - Westside Quick Stop - SC -<br/>Event 3Quote Number00040842

Thank you for your interest in Regenesis Products. Please find below the sales price and related shipping, handling and tax costs per your request.

Please note that a Price Quotation is not a sales order. To place an order please contact our customer service department at 949 366-8000 or order online at <u>http://www.regenesis.com/order</u>.

Products					
Product Code	Product		Quantit	y Sales Price	Total Price
2200	RegenOx® Part A Bags (40 lb) (RBP)		8,200.00	0 USD 3.85	USD 31,570.00
2210	RegenOx® Part B Pails (40 lb) (RBP)		2,760.00	0 USD 3.85	USD 10,626.00
FRE001	Freight		1.00	0 USD 2,955.78	USD 2,955.78
Special Delivery Instructions	R+L Carriers (1-2 transit days) - Delivery Appointment Required - Lift Gate & Pallet Jack at delivery Quote valid for 90 days	Subtota Tax Grand		USD 45,151.78 USD 2,531.76 USD 47,683.54	
Payment Terms	- expires 2/19/2025 - Net 90				

### F.O.B. Origin

**PAYMENT TERMS**: A monthly finance fee of 1.5% will be applied to accounts over the listed payment terms. Volume discounts pricing will be rescinded on accounts outstanding over 90 days. An early payment discount of 1.5% NET 10, is available for cash or check payment only. Discount applied to product, services, and any applicable sales tax. Discount does not apply to any freight and handling. We accept MasterCard, Visa, and American Express.

Sales Tax: a valid Reseller Certificate or Tax Exempt Certificate must be presented to the Customer Service Department at the time an order is placed. Sales tax charges on the quote/ sales confirmations are estimated based on delivery location. The actual sales tax rate is calculated at the time of invoice. Liability for all taxes and import or export duties, imposed by any city, state, federal, or other government authority, shall be assumed and paid by the buyer. Buyer further agrees to defend and indemnify seller against any and all liabilities for such taxes or duties and legal fees or cost incurred by seller in connection therewith.

**RETURN POLICY**: All requests to return product must be pre-approved by Regenesis. A 15% re-stocking fee will be charged for all returned goods. Return freight must be prepaid and product must be in saleable condition. No product will be accepted for return after of 90 days from original delivery date.



SHIPPING POLICY: the following terms and conditions shall apply

- 1. As a service Regenesis will assist and coordinate with independent trucking brokers/carriers the delivery of product. Regenesis will also coordinate a "will call" pick up at one of its warehouse locations with a customer's freight carrier of choice. Please note that product availability will vary by warehouse location.
- All quoted rates and delivery dates are based on Standard Delivery Terms, which allow or provide only an estimated date and time of delivery of product to a site. Delivery times will vary per carrier. A guaranteed delivery may be available for an additional cost and must be requested when placing an order. If the carrier fails to meet the Guaranteed delivery per the specified date and time, *per the carrier's terms and conditions*, carrier will waive this additional charge.
- 3. Shipping /Freight costs are estimates and may change pending requirement of any additional equipment or change in volume or delivery instructions at time of placing your order.

**SHIPPING DISCLAIMER**: Regenesis is not in the business of shipping or transportation of its products. We will strive to assist in meeting shipping requirements, but please realize that all shipments are subject to carrier's availability, weather, mechanical problems, or other unforeseen circumstances. As a result, Regenesis cannot be held responsible for project/site costs incurred due to shipping related delays.

Handling Fee: Handling Fees may be subject to sales tax based on point of delivery.

**Freight** Freight charges are estimates and actual freight charges are calculated at the time of invoice. Additional freight charges may be assessed for any accessorial (can include, but not limited to lift gate and pallet jack at delivery, inside delivery, time definite deliveries, and delivery appointments) requested at the time of delivery. Please communicate any requirements for delivery with the customer service department at the time the order is placed. Standard delivery is 8am-5pm, Monday – Friday. \*Full truck rates are valid for 7 days from date of quote.



## Acknowledgement

This scope and associated costs are budgetary and should not be considered final. Listed below are the next steps to secure a final design and cost estimate from REGENESIS.

### **Steps to Final Design and Scope of Work**

- 1. Signature notifying REGENESIS to proceed with final design.
- 2. REGENESIS technical team contacts EnviroSouth to review final scope of work and provide detailed design and cost estimate
- 3. Provide Detailed Remediation Services Scope of Work, if applicable.
- 4. Confirm Implementation Schedule
- 5. Submit Detailed Design and Cost Estimate to EnviroSouth for review and final approval

Signature below confirms signee accepts this preliminary scope of work and would like REGENESIS to proceed with a detailed design and cost estimate.



Not yet accepted

EnviroSouth | William Lyons, Senior Hydrogeologist



# **Terms & Conditions**

- 1. **PAYMENT TERMS.** Net 90 Days. Accounts outstanding after 90 days will be assessed 1.5% monthly interest. Volume discount pricing will be rescinded on all accounts outstanding over 90 days. An early payment discount of 1.5% Net 10 is available for cash or check payments only. We accept Master Card, Visa and American Express.
- 2. **RETURN POLICY.** A 15% re-stocking fee will be charged for all returned goods. All requests to return product must be pre-approved by seller. Returned product must be in original condition and no product will be accepted for return after a period of 90 days.
- 3. FORCE MAJEURE. Seller shall not be liable for delays in delivery or services or failure to manufacture or deliver due to causes beyond its reasonable control, including but not limited to acts of God, acts of buyer, acts of military or civil authorities, fires, strikes, flood, epidemic, war, riot, delays in transportation or car shortages, or inability to obtain necessary labor, materials, components or services through seller's usual and regular sources at usual and regular prices. In any such event Seller may, without notice to buyer, at any time and from time to time, postpone the delivery or service dates under this contract or make partial delivery or performance or cancel all or any portion of this and any other contract with buyer without further liability to buyer. Cancellation of any part of this order shall not affect Seller's right to payment for any product delivered or service performed hereunder.
- 4. LIMITED WARRANTY. Seller warrants the product(s) sold and services provided as specified on face of invoice, solely to buyer. Seller makes no other warranty of any kind respecting the product and services, and expressly DISCLAIMS ALL OTHER WARRANTIES OF WHATEVER KIND RESPECTING THE PRODUCT AND SERVICES, INCLUDING ALL WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND NON-INFRINGEMENT.
- 5. DISCLAIMER. Where warranties to a person other than buyer may not be disclaimed under law, seller extends to such a person the same warranty seller makes to buyer as set forth herein, subject to all disclaimers, exclusions and limitations of warranties, all limitations of liability and all other provisions set forth in the Terms and Conditions herein. Buyer agrees to transmit a copy of the Terms and Conditions set forth herein to any and all persons to whom buyer sells, or otherwise furnishes the products and/or services provided buyer by seller and buyer agrees to indemnify seller for any liability, loss, costs and attorneys' fees which seller may incur by reason, in whole or in part, of failure by buyer to transmit the Terms and Conditions as provided herein.
- 6. LIMITATION OF SELLER'S LIABILITY AND LIMITATION OF BUYER'S REMEDY. Seller's liability on any claim of any kind, including negligence, for any loss or damage arising out of, connected with, or resulting from the manufacture, sale, delivery, resale, repair or use of any goods or performance of any services covered by or furnished hereunder, shall in no case exceed the lesser of (1) the cost of repairing or replacing goods and repeating the services failing to conform to the foregoing warranty or the price of the goods and/or services or part thereof which gives rise to the claim. IN NO EVENT SHALL SELLER BE LIABLE FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, OR FOR DAMAGES IN THE NATURE OF PENALTIES.
- 7. INDEMNIFICATION. Buyer agrees to defend and indemnify seller of and from any and all claims or liabilities asserted against seller in connection with the manufacture, sale, delivery, resale or repair or use of any goods, and performance of any services, covered by or furnished hereunder arising in whole or in part out of or by reason of the failure of buyer, its agents, servants, employees or customers to follow instructions, warnings or recommendations furnished by seller in connection with such goods and services, by reason of the failure of buyer, its agents, servants, employees or customers to comply with all federal, state and local laws applicable to such goods and services, or the use thereof, including the Occupational Safety and Health Act of 1970, or by reason of the negligence or misconduct of buyer, its agents, servants, employees or customers.



- 8. EXPENSES OF ENFORCEMENT. In the event seller undertakes any action to collect amounts due from buyer, or otherwise enforce its rights hereunder, Buyer agrees to pay and reimburse Seller for all such expenses, including, without limitation, all attorneys and collection fees.
- 9. TAXES. Liability for all taxes and import or export duties, imposed by any city, state, federal or other governmental authority, shall be assumed and paid by buyer. Buyer further agrees to defend and indemnify seller against any and all liabilities for such taxes or duties and legal fees or costs incurred by seller in connection therewith.
- 10. ASSISTANCE AND ADVICE. Upon request, seller in its discretion will furnish as an accommodation to buyer such technical advice or assistance as is available in reference to the goods and services. Seller assumes no obligation or liability for the advice or assistance given or results obtained, all such advice or assistance being given and accepted at buyer's risk.
- 11. SITE SAFETY. Buyer shall provide a safe working environment at the site of services and shall comply with all applicable provisions of federal, state, provincial and municipal safety laws, building codes, and safety regulations to prevent accidents or injuries to persons on, about or adjacent to the site.
- 12. **INDEPENDENT CONTRACTOR.** Seller and Buyer are independent contractors and nothing shall be construed to place them in the relationship of partners, principal and agent, employer/employee or joint ventures. Neither party will have the power or right to bind or obligate the other party except as may be expressly agreed and delegated by other party, nor will it hold itself out as having such authority.
- 13. **REIMBURSEMENT.** Seller shall provide the products and services in reliance upon the data and professional judgments provided by or on behalf of buyer. The fees and charges associated with the products and services thus may not conform to billing guidelines, constraints or other limits on fees. Seller does not seek reimbursement directly from any government agency or any governmental reimbursement fund (the "Government"). In any circumstance where seller may serve as a supplier or subcontractor to an entity that seeks reimbursement from the Government for all or part of the services performed or products provided by seller, it is the sole responsibility of the buyer or other entity seeking reimbursement to ensure the products and services and associated charges are in compliance with and acceptable to the Government prior to submission. When serving as a supplier or subcontractor to an entity that seeks reimbursement for payment to the Government, seller does not knowingly present or cause to be presented any claim for payment to the Government.
- 14. APPLICABLE LAW/JURISDICTION AND VENUE. The rights and duties of the parties shall be governed by, construed, and enforced in accordance with the laws of the State of California (excluding its conflict of laws rules which would refer to and apply the substantive laws of another jurisdiction). Any suit or proceeding hereunder shall be brought exclusively in state or federal courts located in Orange County, California. Each party consents to the personal jurisdiction of said state and federal courts and waives any objection that such courts are an inconvenient forum.
- 15. ENTIRE AGREEMENT. This agreement constitutes the entire contract between buyer and seller relating to the goods or services identified herein. No modifications hereof shall be binding upon the seller unless in writing and signed by seller's duly authorized representative, and no modification shall be effected by seller's acknowledgment or acceptance of buyer's purchase order forms containing different provisions. Trade usage shall neither be applicable nor relevant to this agreement, nor be used in any manner whatsoever to explain, qualify or supplement any of the provisions hereof. No waiver by either party of default shall be deemed a waiver of any subsequent default.



# **Detailed Design Table**

Westside Quick Stop Greenville, South Carolina Treatment Area Prepared For: EnviroSouth, Inc.						
Greenville, South Carolina Treatment Area Prepared For: EnviroSouth, Inc.						
Prepared For: EnviroSouth, Inc.						
EnviroSouth, Inc.						
Target Treatment Zone (TTZ) Info Unit Value						
2,100						
1210						
2110						
50,100	50,400 1,867					
-, 1,00,	· · · · · · · · · · · · · · · · · · ·					
	Sandy silt 0.40					
,						
	-					
8						
8	3					
,	1.67					
Hydraulic Conductivity     ft/day     5.0       Hydraulic Gradient     ft/ft     0.005						
,						
Application Design Summary						
Treatment Area ft <sup>2</sup> 2400.0	)					
Top Treatment Depth ft bgs 21.0						
	42.0					
	Direct Push					
	7.0					
	7.0					
	49					
Number of Applications - 3						
Total RegenOx to be Applied Ibs 32,760						
RegenOx Part A Ibs 24,560						
RegenOx Part B Ibs 8,200						
RegenOx Part A per Point Ibs 167						
RegenOx Part B per Point Ibs 56						
RegenOx Part A Solution % 6.0%						
Volume Water gals 46,108						
Total Solution Volume gals 48,185	5					
Application Volume per Foot gals 16						
Injection Volume per Point gals 328						
Application Dosing						
RegenOx to be Applied Ibs 32,76	0					
RegenOx Part A to be Applied Ibs 24,560	24,560					
RegenOx Part B to be Applied Ibs 8,200	8,200					
,						
Prepared By: Ian Doliana - Design Specialist						
Date: 8/26/2024						



# RegenOx® – Part A (Oxidizer Complex) Material Safety Data Sheet (MSDS)

Last Revised: September 27, 2013

### Section 1 – Supplier Information and Material Identification

### Supplier:



1011 Calle Sombra San Clemente, CA 92673 Telephone: 949.366.8000 Fax: 949.366.8090 E-mail: info@regenesis.com

Chemical Description:	A mixture of sodium percarbonate $[2Na_2CO_3 \cdot 3H_2O_2]$ , sodium carbonate $[Na_2CO_3]$ , sodium silicate and silica gel.
Chemical Family:	Inorganic Chemicals
Trade Name:	RegenOx® – Part A (Oxidizer Complex)
Product Use:	Used to remediate contaminated soil and groundwater (environmental applications)

## Section 2 – Chemical Information/Other Designations

<u>CAS No.</u> 15630-89-4 7699-11-6 63231-67-4	<u>Chemical</u> Sodium Percarbonate Silicic Acid Silica Gel	Percentage           60 - 100 %           < 1 %           < 1 %
	Section 3 – Physical Data	
Form:	Powder	
Color:	White	
Odor:	Odorless	
Melting Point:	NA	
<b>Boiling Point:</b>	NA	

Section 3 – Physical Data (cont)		
Flammability/Flash Point:	NA	
Vapor Pressure:	NA	
Bulk Density:	$0.9 - 1.2 \text{ g/cm}^3$	
Solubility:	Min 14.5g/100g water @ 20 °C	
Viscosity:	NA	
pH (3% solution):	$\approx 10.5$	
Decomposition Temperature:	Self-accelerating decomposition with oxygen release starts at 50 °C.	
	Section 4 – Reactivity Data	
Stability:	Stable under normal conditions	
Conditions to Avoid/Incompatibility:	Acids, bases, salts of heavy metals, reducing agents, and flammable substances	
Hazardous Decomposition Products:	Oxygen. Contamination with many substances will cause decomposition. The rate of decomposition increases with increasing temperature and may be very vigorous with rapid generation of oxygen and steam.	
	Section 5 – Regulations	
TSCA Inventory Listed:	Yes	
CERCLA Hazardous Substa	ance (40 CFR Part 302)	
Listed Substance:	No	
Unlisted Substance:	Yes	
SARA, Title III, Sections 31. Community Right-To-Know	<b>3 (40 CFR Part 372) – Toxic Chemical Release Reporting:</b>	
Extremely Hazardous Substance:	No	
WHMIS Classification:	C, D2B	
Canadian Domestic Substance List:	Appears	

Technical Protective Measure	es
Storage:	Oxidizer. Store in a cool, well ventilated area away from all sources of ignition and out of the direct sunlight. Store in a dry location away from heat and in temperatures less than 40 $^{\circ}$ C.
	Keep away from incompatible materials and keep lids tightly closed. Do not store in improperly labeled containers.
	Protect from moisture. Do not store near combustible materials. Keep containers well sealed.
	Store separately from reducing materials. Avoid contamination which may lead to decomposition.
Handling:	Avoid contact with eyes, skin and clothing. Use with adequate ventilation.
	Do not swallow. Avoid breathing vapors, mists or dust. Do not eat, drink or smoke in the work area.
	Label containers and keep them tightly closed when not in use.
	Wash hands thoroughly after handling.

# Section 6 – Protective Measures, Storage and Handling

# Personal Protective Equipment (PPE)

Engineering Controls:	General room ventilation is required if used indoors. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mists. Maintain adequate ventilation at all times. Do not use in confined areas. Keep levels below recommended exposure limits. To determine actual exposure limits, monitoring should be performed on a routine basis.
<b>Respiratory Protection:</b>	For many conditions, no respiratory protection is necessary; however, in dusty or unknown conditions or when exposures exceed limit values a NIOSH approved respirator should be used.
Hand Protection:	Wear chemical resistant gloves (neoprene, rubber, or PVC).

Section 0 – 110tective Measures, Storage and Handling (cont)		
Eye Protection:	Wear chemical safety goggles. A full face shield may be worn in lieu of safety goggles.	
Skin Protection:	Try to avoid skin contact with this product. Chemical resistant gloves (neoprene, PVC or rubber) and protective clothing should be worn during use.	
Other:	Eye wash station.	
Protection Against Fire & Explosion:	Product is non-explosive. In case of fire, evacuate all non- essential personnel, wear protective clothing and a self- contained breathing apparatus, stay upwind of fire, and use water to spray cool fire-exposed containers.	
Se	ection 7 – Hazards Identification	
Potential Health Effects		
Inhalation:	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath, and irritations to mucous membranes, nose and throat.	
Eye Contact:	Causes irritation, redness and pain.	
Skin Contact:	Causes slight irritation.	
Ingestion:	May be harmful if swallowed (vomiting and diarrhea).	
Section 8 –	- Measures in Case of Accidents and Fire	
After Spillage/Leakage:	Eliminate all ignition sources. Evacuate unprotected personnel and never exceed any occupational exposure limit. Shovel or sweep spilt material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to the inventory.	
Extinguishing Media:	Water	
First Aid		
Eye Contact:	Flush eyes with running water for at least 15 minutes with eyelids held open. Seek a specialist.	
Inhalation:	Remove affected person to fresh air. Seek medical attention if the effects persist.	
Ingestion:	If the individual is conscious and not convulsing, give two- four cups of water to dilute the chemical and seek medical attention immediately. <b>Do Not</b> induce vomiting.	

Section 8 – N	Measures in Case of Accidents and Fire (cont)
Skin Contact:	Wash affected areas with soap and a mild detergent and large amounts of water.
Sec	tion 9 – Accidental Release Measures
Precautions:	
Cleanup Methods:	Shovel or sweep spilt material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to the inventory.
Sec	ction 10 – Information on Toxicology
Toxicity Data	
LD50 Oral (rat):	2,400 mg/kg
LD50 Dermal (rabbit):	Min 2,000 mg/kg
LD50 Inhalation (rat):	Min 4,580 mg/kg
S	ection 11 – Information on Ecology
Ecology Data	
Ecotoxicological Information:	NA
Se	ection 12 – Disposal Considerations
Waste Disposal Method	
Waste Treatment:	Dispose of in an approved waste facility operated by an authorized contactor in compliance with local regulations
Package (Pail) Treatment:	The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

Section 15 – Simpping, Transport Information	
D.O.T. Shipping Name:	Oxidizing Solid, N.O.S. [A mixture of sodium percarbonate [2Na <sub>2</sub> CO <sub>3</sub> ·3H2O <sub>2</sub> ], sodium carbonate [Na <sub>2</sub> CO <sub>3</sub> ], sodium silicate and silica gel.]
UN Number:	1479
Hazard Class:	5.1
Labels:	5.1 (Oxidizer)
Packaging Group:	III
Section 14 Other Information	

Section 13	– Shipping/Transport Information
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Section 14 – Other Information		
HMIS <sup>®</sup> Rating	Health – 1 (slight)	Reactivity – 1 (slight)
	Flammability – 0 (none)	Lab PPE – goggles, gloves, and lab coat

HMIS<sup>®</sup> is a registered trademark of the National Painting and Coating Association.

#### **Section 15 – Further Information**

The information contained in this document is the best available to the supplier at the time of writing, but is provided without warranty of any kind. Some possible hazards have been determined by analogy to similar classes of material. The items in this document are subject to change and clarification as more information become available. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.



# SAFETY DATA SHEET

### 1. Identification

Product identifier	RegenOx® Part B
Other means of identification	None.
Recommended use	Soil and Groundwater Remediation.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Company Name	Regenesis
Address	1011 Calle Sombra
	San Clemente, CA 92673 USA
General information	949-366-8000
E-mail	CustomerService@regenesis.com
Emergency phone number	For Hazardous Materials Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:
USA, Canada, Mexico	1-800-424-9300
International	1-703-527-3887
2. Hazard(s) identification	
Physical hazards	Not classified.

r nyoloar nazarao		
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	Causes skin irritation. Causes serious eye irritation.
Precautionary statement	
Prevention	Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Silicic Acid, Sodium Salt, Sodium Silicate	1344-09-8	25-40
Silicon dioxide (amorphous silica gel)	63231-67-4	<10

Ferrous sulfate		7720-78-7	2-5
Composition comments	All concentrations are in percent by weight unle	ess otherwise indicated.	
4. First-aid measures			
Inhalation	Move to fresh air. Keep victim at rest in a positi symptoms develop or persist.	on comfortable for breathin	g. Call a physician
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Ge medical advice/attention. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persist		
Ingestion	Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Spray mist may irritate the respiratory syste Symptoms may include coughing, difficulty breathing and shortness of breath.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat Symptoms may be delayed.	t symptomatically. Keep vict	im under observat
General information	Ensure that medical personnel are aware of the protect themselves.	e material(s) involved, and t	ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	n dioxide (CO2).	
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Combustion products may include: sil oxides, metal oxides, sulfur oxides.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pro	tective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so	o without risk.	
Specific methods	Use standard firefighting procedures and consi	der the hazards of other inv	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a cool, dry, well-ventilated place. Maintain storage temperatures between 50°F to 140°F (10°C to 60°C). Store away from incompatible materials (see Section 10 of the SDS). Recommended storage containers: steel or plastic. Do not use containers made of aluminum, fiberglass, copper, brass, zinc or galvanized containers.

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

Components	Туре	Value
Silicon dioxide (amorphous silica gel) (CAS 63231-67-4)	TWA	0.8 mg/m3
		20 mppcf
US. ACGIH Threshold Limit	Values	
Components	Туре	Value
Ferrous sulfate (CAS 7720-78-7)	TWA	1 mg/m3
US. NIOSH: Pocket Guide to	Chemical Hazards	
Components	Туре	Value
Ferrous sulfate (CAS 7720-78-7)	TWA	1 mg/m3
Silicon dioxide (amorphous silica gel) (CAS 63231-67-4)	TWA	6 mg/m3
logical limit values	No biological exposure limits noted	for the ingredient(s).
propriate engineering htrols	should be matched to conditions. If or other engineering controls to mai exposure limits have not been estat	0 air changes per hour) should be used. Ventilation rates applicable, use process enclosures, local exhaust ventilatio ntain airborne levels below recommended exposure limits. I blished, maintain airborne levels to an acceptable level. Eye ver must be available when handling this product.
ividual protection measures,	such as personal protective equip	
Eye/face protection	To avoid contact with eyes, wear ch	emical goggles or shielded safety glasses.
Skin protection Hand protection	Wear appropriate chemical resistan	t gloves.
Skin protection		
Other	Wear appropriate chemical resistan	t clothing.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Recommended use: Wear NIOSH approved respirator appropriate for airborne exposure at the point of use.	
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.
neral hygiene Isiderations		ene measures, such as washing after handling the material smoking. Routinely wash work clothing and protective

## 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Green to dark blue.
Odor	Odorless.
Odor threshold	Not available.
рН	11 (10% solution/water)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

#### Upper/lower flammability or explosive limits

obb	bernower naminability or exp	iosive innits
	Flammability limit - lower (%)	Not available.
	Flammability limit - upper (%)	Not available.
	Explosive limit - lower (%)	Not available.
	Explosive limit - upper (%)	Not available.
Vap	or pressure	Not available.
Vap	or density	Not available.
Rela	ative density	1.2 - 1.4
Sol	ubility(ies)	
	Solubility (water)	Miscible.
	tition coefficient octanol/water)	Not available.
Aut	o-ignition temperature	Not available.
Dec	omposition temperature	Not available.
Vise	cosity	< 10,000cP
10.	Stability and reactivity	

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Hydrogen fluoride. Fluorine. Oxygen difluoride. Chlorine trifluoride. Strong acids. Strong bases. Oxidizers. Aluminum metal. Copper. Brass. Zinc. Galvanized metals.
Hazardous decomposition products	Thermal decomposition or combustion may produce: silicon oxides, metal oxides, sulfur oxides.

## 11. Toxicological information

#### Information on likely routes of exposure

internation on intery reaced or s	
Inhalation	Prolonged inhalation may be harmful. Spray mists may cause respiratory tract irritation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Ingestion may cause irritation and malaise.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Inhalation may irritate lungs causing coughing and/or shortness of breath.
Information on toxicological of	facts

#### Information on toxicological effects

Acute toxicity	Not available.		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	1		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Silicon dioxide (amorphous silica gel) (CAS 63231-67-4) 3 Not classifiable as to carcinogenicity to humans. <b>NTP Report on Carcinogens</b>			

#### Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

### 12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	This product is water soluble and may spread in the water system.
Other adverse effects	None known.

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

# Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA	defined by the OSHA Hazard Communication
TSCA Section 12(b) Export N Not regulated. CERCLA Hazardous Substan	lotification (40 CFR 707, Subpt. D) nce List (40 CFR 302.4)	
Ferrous sulfate (CAS 772 SARA 304 Emergency releas Not regulated. OSHA Specifically Regulated Not regulated.	,	
Superfund Amendments and Rea SARA 302 Extremely hazard Not listed.		

SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Skin corrosion or irritation Serious eye damage or eye irritation	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
US. Massachusetts RTK - S		
Ferrous sulfate (CAS 772 US. New Jersey Worker and	20-78-7) I Community Right-to-Know Act	
Ferrous sulfate (CAS 772 US. Pennsylvania Worker a	20-78-7) nd Community Right-to-Know Law	
Ferrous sulfate (CAS 772 US. Rhode Island RTK	20-78-7)	
Ferrous sulfate (CAS 772	20-78-7)	
California Proposition	65	
is not known to cont	king Water and Toxic Enforcement Act of 2016 (Proposition 65): This mater ain any chemicals currently listed as carcinogens or reproductive toxins. Fo to www.P65Warnings.ca.gov.	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	02-April-2015
Revision date	19-November-2017
Version #	03
Further information	HMIS® is a registered trade and service mark of the American Coatings Association (ACA).
HMIS <sup>®</sup> ratings	Health: 2 Flammability: 0 Physical hazard: 0



Disclaimer

Regenesis cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



# RegenOx<sup>®</sup> Technical Description

RegenOx is an advanced chemical oxidation technology that destroys contaminants through powerful, yet controlled chemical reactions. This product maximizes *in situ* chemical oxidation (ISCO) performance through use of a two-part product system; a sodium percarbonate oxidizer complex activated by a patented surface catalyst system. The technology degrades pollutants through direct oxidation, as well as through the generation of a suite of free radical compounds which in turn oxidize recalcitrant contaminants. RegenOX rapidly and effectively destroys a range of target contaminants including petroleum hydrocarbons and chlorinated compounds.

RegenOx is especially effective in destroying target contaminants present in high concentration source areas within the saturated and vadose zones. For petroleum hydrocarbon treatment, RegenOx produces oxygen as a result of its reactions, providing seamless transition from ISCO to enhanced aerobic bioremediation.



Close up of RegenOx

RegenOx produces minimal heat when applied, and continues to destroy contaminants for up to 30 days on a single application. RegenOx is safe for use in direct contact with underground utilities, since it is non-corrosive to concrete and most metals.

### $C_2CI_4 + 4/3 Na_2CO_3 \bullet 2H_2O_2 + 4NaOH \rightarrow 2CO_2 + 4NaCI + 4H_2O + 4/3 Na_2CO_3$

Free Radical Oxidation via production of:

 Perhydroxyl Radical (HO<sub>2</sub> •)
 Hydroxyl Radical (OH •)
 Superoxide Radical (O<sub>2</sub><sup>-</sup>•)

For a list of treatable contaminants with the use of RegenOx, view the Range of Treatable Contaminants Guide

# Chemical Composition - Part A Oxidant

- Sodium Percarbonate CAS #15630-89-4
- Sodium Carbonate Monohydrate CAS #5968-11-6
- Silicic Acid CAS #7699-11-6
- Silica Gel CAS #63231

# Chemical Composition – Part B Activator Complex

- Silicic Acid, Sodium Salt, Sodium Silicate CAS#1344-09-08
- Silica Gel CAS #63231
- Ferrous Sulfate CAS #7720-78-7
- Water CAS#7732-18-5

# Properties

- Bulk Density Part A 0.9-1.2 g/cm3; Part B 1.39 g/cm3
- pH 10-11 per recommended mixing ratios (3-5% oxidant in solution)
- Solubility Oxidant 14.5 g/100 g water; Activator miscible in water
- Appearance Brown to orange-brown when mixed with water
- Odor Not detectable
- Vapor Pressure None
- Non-hazardous



# RegenOx<sup>®</sup> Technical Description

....

Storage and Handling Guidelines	
Storage	Handling
Store in a cool, dry place out of heat/direct sunlight	Minimize dust generation and accumulation
Store at temperatures not to exceed 40°C/104°F	Observe good industrial hygiene practices
Store in original tightly closed container	Keep away from clothing and combustible materials
Store in a well-ventilated place	
Do not store near combustible materials	Take any precaution to avoid mixing with combustibles
Store away from incompatible materials	Avoid contact with eyes
Protect from contamination	Do not taste or swallow
Provide appropriate exhaust ventilation in places where dust is formed	Do not eat, drink or smoke nearby
where dust is formed	Wear appropriate personal protective equipment
	Wash hands thoroughly after handling
	Avoid release to the environment

# Applications

RegenOx is applied using direct-injection techniques or wells. The application process enables the two- part product to be combined, then pressure-injected into the zone of contamination and moved out into the aquifer media. Application instructions for this product are contained in the <u>RegenOx Application Instructions Guide</u>.

# Health and Safety

Material is relatively safe to handle; however, we recommend avoiding contact with eyes, skin and clothing. OSHA Level D personal protection equipment including vinyl or rubber gloves, eye protection and dust mask are recommended when handling this product. Please review the Material Safety Data Sheet for additional storage, packaging, usage, and handling requirements here: <u>RegenOx Part A SDS</u> and <u>RegenOx Part B SDS</u>.



www.regenesis.com 1011 Calle Sombra, San Clemente CA 92673 949.366.8000



Dear Mr. Hudson,

I have conducted a review of the RegenOx specification sheet and Safety Data Sheets provided in email correspondence. Sodium Percarbonate, the primary oxidizing agent in the product, would be expected to release hydrogen peroxide when injected in groundwater. The addition of the sodium silicate and ferrous sulfate activator would enable additional oxidation reactions that should break down any organic compounds present in the aquifer, including petroleum hydrocarbons.

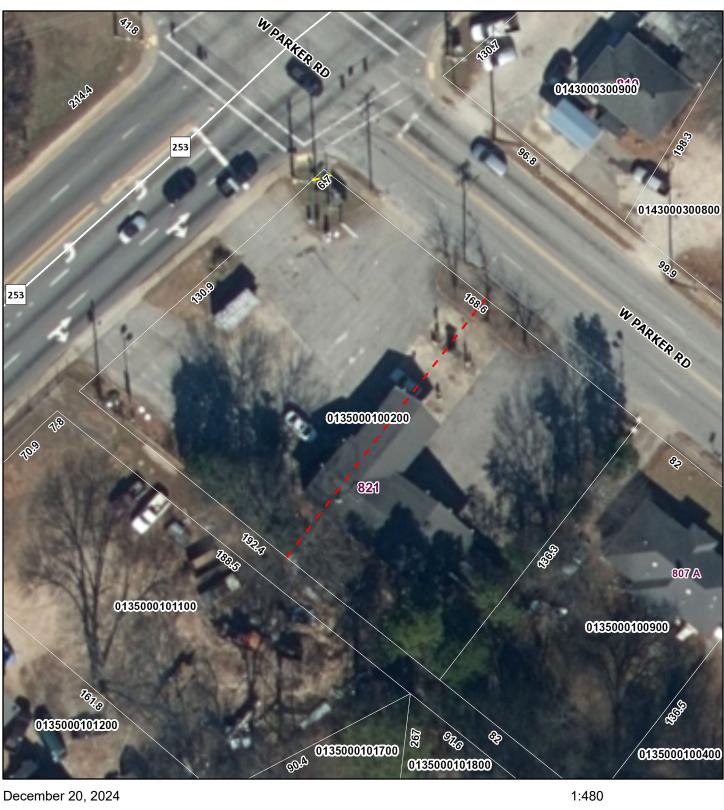
Neither the sodium persulfate nor activator solution would be expected to substantially contribute to the degradation of the quality of off-Site groundwater used for drinking water or released in the aquatic receiving environment.

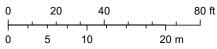
Don't hesitate to contact me at 803-608-0875 or by email at ray.holberger@des.sc.gov if you have any questions or comments concerning this review.

**Ray Holberger** Environmental Risk Specialist

cc'd: Fran Marshall – Environmental Affairs, Environmental Public Health, Courtney Milledge - Bureau of Water, Groundwater Protection Division

# Greenville County, SC





Greenville County GIS Division, Greenville, South Carolina, Greenville County GIS Division, Greenville County, South Carolina GIS Division

# WESTSIDE QUICK STOP CORRECTIVE ACTION SCHEDULE - REVISION 1

					Act	ual (b	beyond	plan)		% Cor	mplete	(beyon	d plan)	)	Actua	al Start		% Coi	nplete	e 🖉 A	ctual	(beyon	id plan	)	% Con	nplete	(beyor	nd plan)						
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Corrective Action Plan and Underground Injection Control Permit Application Submittal	12/16/2024	7	12/16/2024	100%																														
Public Notice	3/3/2025	30		0%																														
CAP and UIC Approval	4/14/2025	7		0%																														
Ground Penetrating Radar Survey	4/21/2025	7		0%																														
Install Additional Recovery Wells	4/28/2025	1		0%																														
Baseline Sampling Event	4/28/2025	4		0%																														
Report and Invoice #1	5/12/2025	2		0%		T																												
Order, Receive, and Store Chemicals for 1st Injection Event	5/12/2025	2		0%																														
1st Injection Event	5/19/2025	11		0%																														
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96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-1, RW-6, and RW-7	6/16/2025	4		0%																														
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-2, RW-3, and RW-4	6/23/2025	4		0%																														
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-4, RW-5, and RW-8	6/30/2025	4		0%																														
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# WESTSIDE QUICK STOP CORRECTIVE ACTION SCHEDULE - REVISION 1

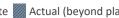
Actual (beyond plan) 🖉 % Complete (beyond plan) Actual Start 🧧 % Complete 💓 Actual (beyond plan) 🖉 % Complete (beyond plan)

ACTIVITY	PLAN START (DATE)	PLAN DURATION (DAYS)	ACTUAL START (DATE)	ACTUAL DURATION (DAYS)	PERCENT COMPLETE	1/5/2026 1/12/2026	1/19/2026 1/26/2026	2/2/2026 2/9/2026	2/16/2026 2/23/2026	3/2/2026	3/9/2026 3/16/2026	3/23/2026 3/30/2026	4/6/2026 4/13/2026 4/20/2026	4/27/2026	5/4/2026 5/11/2026	5/18/2026 5/25/2026	6/1/2026 6/8/2026	6/22/2026 6/22/2026 8/202/026	7/6/2026	7/20/2026	8/3/2026	8/10/2026 8/17/2026	8/24/2026 8/31/2026	9/7/2026	9/14/2026 9/21/2026	9/28/2026 10/5/2026	2 2	10/26/2026 11/2/2026	11/9/2026 11/16/2026	11/23/2026 11/30/2026	12/7/2026 12/14/2026	12/21/2026 12/28/2026
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Install Additional Recovery Wells	4/28/2025	1			0%																											
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Report and Invoice #5	10/20/2025	5			0%																											
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96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-2, RW-3, and RW-4	12/8/2025	4			0%																											
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-4, RW-5, and RW-8	12/15/2025	4			0%																											
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4th Quarter Comprehensive Sampling Event	12/28/2026	4			0%																											
Report and Invoice 4th Quarter Comprehensive Sampling																																
Event Well Abandonment	1/25/2027 2/22/2027	5			0% 0%					++																			$\square$	$\left  \right $	++	
Report and Invoice Well Abandonment	3/22/2027	5			0% 0%					╉┿		┿╋		┿╋		┿╋									++			+	┢╾┿╼╸	┝╾┿╾┙	┢┿╴	+++-
Report and involve Weir Abandonment	312212021	Э			U%																											

# WESTSIDE QUICK STOP CORRECTIVE ACTION SCHEDULE - REVISION 1

🖉 Actual (beyond plan) 🖉 % Complete (beyond plan) 🛛 Actual Start 🧧 % Complete 💹 Actual (beyond plan) 📲 % Complete (beyond plan)

ACTIVITY	PLAN START (DATE)	PLAN DURATION (DAYS)	ACTUAL START (DATE)	ACTUAL DURATION (DAYS)	PERCENT COMPLETE	1/4/2027	1/11/2027	1/18/2027	1/25/2027	2/1/2027	2/8/2027	2/15/2027	120212212	3/1/2027 3/8/2027	3/15/2027	3/22/2027	3/29/2027
Corrective Action Plan and Underground Injection Control Permit Application Submittal	12/16/2024	7	12/16/2024		100%												
Public Notice	3/3/2025	30			0%												
CAP and UIC Approval	4/14/2025	7			0%												
Ground Penetrating Radar Survey	4/21/2025	7			0%								T				
Install Additional Recovery Wells	4/28/2025	1			0%							-			-		
Baseline Sampling Event	4/28/2025	4			0%												_
													t			$\vdash$	-
Report and Invoice #1	5/12/2025	2			0%	_		_	_		_	-	+	-	-		_
Order, Receive, and Store Chemicals for 1st Injection Event 1st Injection Event	5/12/2025	2			0% 0%	_			_		_	-	÷	-	-		_
	5/19/2025					-			_		_		╈				_
Report and Invoice #2	6/2/2025	5			0%	_		_	_		_	_	+	_	-		_
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-1, RW-6, and RW-7	6/16/2025	4			0%												
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-2, RW-3, and RW-4	6/23/2025	4			0%												
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-4, RW-5, and RW-8	6/30/2025	4			0%								Τ				
Interim Sampling Event #1	7/21/2025	2			0%												
Report and Invoice #3	7/28/2025	5			0%											$\square$	
Order, Receive, and Store Chemicals for 2nd Injection Event	7/28/2025	7			0%												
2nd Injection Event	8/4/2025	11			0%												
Report and Invoice #4	8/18/2025	5			0%											$\square$	
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-1, RW-6, and RW-7	9/8/2025	4			0%								T				
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-2, RW-3, and RW-4 96-Hour Aggressive Fluid Vapor Recovery Event Utilizing	9/15/2025	4			0%								ļ				
Wells RW-4, RW-5, and RW-8	9/22/2025	4			0%												
Interim Sampling Event #2	10/13/2025	2			0%												
Report and Invoice #5	10/20/2025	5			0%												
Order, Receive, and Store Chemicals for 3rd Injection Event	10/20/2025	7			0%											$\square$	
3rd Injection Event	10/27/2025	11			0%												
Report and Invoice #6	11/10/2025	5			0%												
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-1, RW-6, and RW-7	12/1/2025	4			0%								T				
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-2, RW-3, and RW-4	12/8/2025	4			0%								Ī				
96-Hour Aggressive Fluid Vapor Recovery Event Utilizing Wells RW-4, RW-5, and RW-8	12/15/2025	4			0%												
Report and Invoice #7	12/22/2025	5			0%								T				
1st Quarter Limited Sampling Event	3/23/2026	2			0%								Ť			$\square$	
Report and Invoice 1st Quarter Limited Sampling Event	4/20/2026	5			0%												
2nd Quarter Limited Sampling Event	6/22/2026	2			0%												
Report and Invoice 2nd Quarter Limited Sampling Event	7/20/2026	5			0%												
3rd Quarter Comprehensive Sampling Event	9/21/2026	4			0%												
Report and Invoice 3rd Quarter Comprehensive Sampling Event	10/19/2026	5			0%												
4th Quarter Comprehensive Sampling Event	12/28/2026	4			0%												
Report and Invoice 4th Quarter Comprehensive Sampling													T				
Event Well Abandonment	1/25/2027	5			0%									+			
	2/22/2027	4			0%					$\vdash$				+			
Report and Invoice Well Abandonment	3/22/2027	5			0%												



## TARGETED COMPONENT INVOICE



## SC DEPARTMENT of **ENVIRONMENTAL** SERVICES

South Carolina Department of Environmental Services Underground Storage Tank Management Division State Underground Petroleum Environmental Response Bank Account

August 9, 2023

Facility Name: Westside Quick Stop

UST Permit #: 12430 Cost Agreement #:

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
C. Survey				
1.2 Comprehensive Survey		each	\$1,270.36	\$0.00
5.1 Ground Penetrating Radar Survey (100 x 100)	1	each	\$1,111.57	\$1,111.57
D. Mob/Demob				
1.2 Equipment	8	each	\$1,245.93	\$9,967.44
2.2 Personnel	26	each	\$516.69	\$13,433.94
3.2 Adverse Terrain Vehicle		each	\$610.75	\$0.00
E. Soil Borings*				
1.1 Soil Borings (hand auger)		foot	\$21.80	\$0.00
F. Soil Borings (requiring equipment, push techno	logy, etc) or			
Field Screening (including sampling and analys	t)*			
1.2 Standard	6174	per foot	\$33.50	\$206,829.00
2.2 Fractured Rock		per foot	\$41.40	\$0.00
H. Well Abandonment (does not include Field Scre	ening)*			
1.2 2" diameter or less	7499.15	per foot	\$3.79	\$28,421.78
2.2 Greater than 2" to 6" diameter	328.77	per foot	\$5.50	\$1,808.24
3.2 Dug/Bored well (up to 6 feet diameter)		per foot	\$18.32	\$0.00
I. Well Installation (In accordance with R.61-71)*				
1.2 Water Table (hand augered)		per foot	\$31.40	\$0.00
2.B Water Table (drill rig) 2" Diameter		per foot	\$54.90	\$0.00
2.2 Single-cased 2" Diameter Monitoring Well >50	)ft	per foot	\$59.80	\$0.00
3.2 Telescoping		per foot	\$84.70	\$0.00
4.2 Rock Drilling		per foot	\$81.80	\$0.00
5.2 2" Rock Coring		per foot	\$88.50	\$0.00
6.2 Multi-sampling ports/screens		per foot	\$59.40	\$0.00
7.2 Recovery Well (4" diameter)	210	per foot	\$69.60	\$14,616.00
9.2 Rotosonic (2" diameter)		per foot	\$119.00	\$0.00
10.2 Re-develop Existing Well	563.2	per foot	\$13.44	\$7,569.41
J. Groundwater Sample Collection / Gauging Dep	th to Water/P	roduct *		
1.2 Groundwater Purge		per well	\$73.29	\$0.00
2.2 Air or Vapors		sample	\$14.66	\$0.00
3.2 Water Supply Sample		sample	\$26.87	\$0.00
4.1A HydraSleeve		sample	\$34.20	\$0.00
4.2B No-purge Groundwater Sample/Surface wate	7	sample	\$57.24	\$400.68
5.2 Gauge Well only	56	sample	\$8.55	\$478.80

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6.2 Sample Below Product		sample	\$14.66	\$0.00
7.2 Passive Diffusion Bag		sample	\$31.75	\$0.00
8.2 Field Duplicates (MWs & WSWs) and Field Black		sample	\$30.06	\$961.92
9.2 Groundwater (low flow purge)	165	sample	\$111.16	\$18,341.40
10.2 Equipment Blank		sample	\$30.06	\$0.00
11.1 Sample Product		per well	\$52.66	\$0.00
K. Laboratory Analyses-Groundwater				
1.2 BTEXNM+Oxyg's+1,2 DCA+Eth(8260D)	198	per sample	\$149.02	\$29,505.96
2.2 Lead, Filtered		per sample	\$16.85	\$0.00
3.2 Rush EPA Method 8260B	26	per sample	\$187.62	\$4,878.12
4.2 Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$34.20	\$0.00
5.2 PAH's		per sample	\$74.02	\$0.00
6.2 Lead		per sample	\$19.54	\$0.00
7.2 EDB by EPA 8011	180	per sample	\$55.21	\$9,937.80
8.2 EDB by EPA Method 8011 Rush	24	per sample	\$83.31	\$1,999.44
9.2 8 RCRA Metals		per sample	\$77.45	\$0.00
10.2 TPH (9070)		per sample	\$50.09	\$0.00
11.2 PH		per sample	\$6.35	\$0.00
12.2 BOD		per sample	\$24.42	\$0.00
13.2 Ethanol		per sample	\$18.08	\$0.00
K. Analyses-Drinking Water				
14.2 BTEXNM+1,2 DCA (524.2)		per sample	\$151.52	\$0.00
15.2 7-OXYGENATES & ETHANOL (8260D)		per sample	\$112.07	\$0.00
16.2 EDB (504.1)		per sample	\$97.11	\$0.00
17.2 RCRA METALS (200.8)		per sample	\$122.15	\$0.00
K. Analyses-Soil				
18.2 BTEX + Naphth.		per sample	\$78.18	\$0.00
19.2 PAH's		per sample	\$78.22	\$0.00
20.2 8 RCRA Metals		per sample	\$68.89	\$0.00
21.2 TPH-DRO (3550C/8015C)		per sample	\$48.86	\$0.00
22.2 TPH-GRO (5035B/8015C)		per sample	\$43.92	\$0.00
23.2 Grain size/hydrometer		per sample	\$127.04	\$0.00
24.2 Total Organic Carbon		per sample	\$37.38	\$0.00
P. Survey*				
1.1 Subsequent Survey	1	each	\$297.65	\$297.65
Q. Disposal (gallons or tons)*				
1.2 Wastewater	500	gallon	\$1.19	\$595.00
2.2 Free Product		gallon	\$1.63	\$0.00
3.2 Soil Treatment/Disposal	3	ton	\$156.25	\$468.75
4.2 Drilling fluids		gallon	\$1.25	\$0.00
R. Miscellaneous (attach receipts)			T	
1. Targeted Corrective Action (see attached Table)	1	each	\$284,547.61	\$284,547.61
W. Aggressive Fluid & Vapor Recovery (AFVR)			Т	
1.2 8-hour Event		per event	\$1,787.40	\$0.00
2.1 24-hour Event		per event	\$4,407.78	\$0.00
3.1 48-hour Event		per event	\$7,242.29	\$0.00

4.1 96-hour Event	9	per event	\$14,482.28	\$130,340.52
5.1 Off-gas Treatment 8 hour		per event	\$141.17	\$0.00
6.2 Off-gas Treatment 24 hour		per event	\$294.30	\$0.00
7.2 Off-gas Treatment 48 hour		per event	\$386.10	\$0.00
8.1 Off-gas Treatment 96 hour	9	per event	\$898.84	\$8,089.56
9.1 Off-gas Treatment 8 hour (w/chlorinated com	per event	\$464.40	\$0.00	
10.1 Off-gas Treatment 24 hour (w/chlorinated co	per event	\$540.00	\$0.00	
11.1 Off-gas Treatment 48 hour (w/chlorinated co	per event	\$1,080.00	\$0.00	
12.1 Off-gas Treatment 96 hour (w/chlorinated co	per event	\$2,160.00	\$0.00	
13.2 AFVR Effluent Disposal(w/chlorinated comp	gallon	\$0.64	\$0.00	
14.2 AFVR Site Reconnaissance	3	each	\$302.40	\$907.20
15.1 Additional Hook-ups		each	\$29.68	\$0.00
16.2 AFVR Effluent Disposal	72000	gallon	\$0.53	\$38,160.00
17.2 AFVR Mobilization/Demobilization	9	each	\$777.60	\$6,998.40
Z. High Resolution Site Characterization				
1.1 HRSC Screening Equipment Mobilization		each	\$1,468.80	\$0.00
2.1 HRSC Drilling Category 1		per foot	\$31.32	\$0.00
3.1 HRSC Drilling Category 2		per foot	\$36.18	\$0.00
4.1 HRSC Drilling Category 3		per foot	\$29.16	\$0.00
5.1 HRSC 3-D Model		each	\$4,363.20	\$0.00
S. Report Prep & Project Management	12%	percent	\$820,666.18	\$98,479.94
TOTAL	\$919,146.12			

DES-24-0017 (09/2024)

ITEM						
R. Miscellaneous (attach receipts)	QUANTITY	UNIT	UNIT PRICE	TOTAL		
Corrective Action Plan	1	each	\$10,000.00	\$10,000.00		
I. Injection						
Injectate	0	per event	\$0.00	\$0.00		
Injection Services - AK&GPR	0	per event	\$0.00	\$0.00		
Injection supplies	0	each	\$0.00	\$0.00		
Injection Services - Regenesis	0	each	\$0.00	\$0.00		
Secondary Parameter Analysis	0	each	\$0.00	\$0.00		
II. Enhanced AFVR				\$0.00		
Injectate - Event 1	1	each	\$47,683.54	\$47,683.54		
Injectate - Event 2	1	each	\$47,683.54	\$47,683.54		
Injectate - Event 3	1	each	\$47,683.54	\$47,683.54		
Injection Services and Equipment - Event 1	1	each	\$40,000.00	\$40,000.00		
Injection Services and Equipment - Event 2	1	each	\$40,000.00	\$40,000.00		
Injection Services and Equipment - Event 3	1	each	\$40,000.00	\$40,000.00		
Expendable Supplies and Tooling - Event 1	1	per event	\$3,832.33	\$3,832.33		
Expendable Supplies and Tooling - Event 2	1	per event	\$3,832.33	\$3,832.33		
Expendable Supplies and Tooling - Event 3	1	per event	\$3,832.33	\$3,832.33		
III. Excavation		ton		\$0.00		
Excavation Equipment and Operator		each		\$0.00		
Backfill Material		ton		\$0.00		
Backfill Additive		ton		\$0.00		
Proctor/Compaction Testing		per event		\$0.00		
Sheet Piling		per event		\$0.00		
Dewatering Equipment		per event		\$0.00		
Excavation Security/Fencing		per event		\$0.00		
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<b>TOTAL</b> \$284,547.61						