

**IOWA DEPARTMENT OF NATURAL RESOURCES  
CONTRACT NUMBER 23ESDWQBLMCDA-0001**

**Between**

**IOWA DEPARTMENT OF NATURAL RESOURCES  
And  
TETRASOLV SERVICES**

IN WITNESS THEREOF, the parties hereto have entered into this Contract on the day and year last specified below.

**DEPARTMENT OF NATURAL RESOURCES**

By

:

\_\_\_\_\_ Date: \_\_\_\_\_

Kayla Lyon, Director

**CONTRACTOR**

By

:

 \_\_\_\_\_ Date: 2/8/23

Doug Dallmer, Tetrasolv Services

This Contract must not begin until it has been either (1) signed by both parties or (2) the Contract start date has occurred, whichever is later.

## DNR STANDARD CONTRACT

This Contract is entered into between the Iowa Department of Natural Resources (DNR) and Tetrasolv Services (Contractor). The parties agree as follows:

### Section 1 IDENTITY OF THE PARTIES

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**1.1. Parties.** DNR is authorized to enter into this Contract. DNR's address is: Wallace State Office Building, 502 East 9th Street, Des Moines, Iowa 50319.

Tetrasolv Services, a corporation, is organized and registered under the laws of the State of Texas, with its principal place of business in Indiana.<sup>1</sup> The Contractor's address is: 444 E. 29th St, Anderson, IN 46016.

**1.2. Project Managers.** Each party has designated a Project Manager, who will be responsible for oversight and negotiation of any Contract modifications, as follows:

**DNR Project Manager:** Lori McDaniel, Bureau Chief  
Water Quality Bureau  
502 E 9th St  
Des Moines, Iowa 50319  
Phone: 515-423-6485  
Fax: 515-725-8202  
Email: [lori.mcdaniel@dnr.iowa.gov](mailto:lori.mcdaniel@dnr.iowa.gov)

**DNR Technical Contact:** Satya Chennupati, Wastewater Engineering Section Supervisor  
Water Quality Bureau  
502 E 9th St  
Des Moines, Iowa 50319  
Phone: 515-725-8436  
Fax: 515-725-8202  
Email: [satya.chennupati@dnr.iowa.gov](mailto:satya.chennupati@dnr.iowa.gov)

**Contractor Project Manager:** Doug Dallmer  
Tetrasolv Services  
444 E 29th St  
Anderson, IN 46016  
Phone: 765-643-3941  
Email: [ddallmer@tetrasolv.com](mailto:ddallmer@tetrasolv.com)<sup>1</sup>  
Remit to Address: Same as above

### Section 2 STATEMENT OF PURPOSE

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**2.1 Purpose.** Aqueous Film Forming Foam (AFFF) washed into a stormwater basin, which will be referred to as Basin C (see Appendix B), after an explosion and fire at a local facility in Marengo, Iowa on December 8, 2022. It is estimated that the basin is holding approximately 12 million gallons of water – 3 million gallons resulting from firefighting runoff, 5 million gallons from the City's wastewater treatment plant (aerated lagoon) effluent, and the rest as stormwater runoff. The purpose of this Contract is to enter into an agreement with Contractor to treat approximately 12.9 million gallons of water in Basin C for PFAS components. The Contractor is required to treat water from Basin C to less than 2 ng/L of PFOA and PFOS, less than 5 ng/L for GenX Chemicals and 3 ng/L for PFBS.

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<sup>1</sup> As of February 8, 2023, this company is incorporated in the State of Texas as Tetrasolv Services, Incorporated. However, the name on its W-9 is Tetrasolv Services.

**2.2 Background.** This is an emergency situation to protect the health and welfare of the citizens of Iowa. This Contract will ensure that PFAS components are treated to below detection levels before being discharged into the Iowa River and protect the citizens of Marengo who rely on the capacity of Basin C to prevent flood waters from causing damage.

**2.3 Inconsistencies.** In the case of any inconsistency or conflict between the Terms of this Contract and the following documents, which are all adopted by reference and incorporated herein, the inconsistency or conflict will be resolved as follows: first, by giving preference to the provisions of this Contract and, second, by giving preference to Contractors quote for services contained in Appendix A.

### Section 3 DURATION OF CONTRACT

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**3.1 Term of Contract.** The term of this Contract is February 8, 2023 through June 20, 2023, unless terminated earlier in accordance with the Termination section of this Contract. However, this Contract must not begin until it has been signed by both parties.

**3.2 Amendments.** This Contract may be amended only by written mutual consent of the parties. For competitively bid contracts, the DNR has the sole option to amend this Contract for subsequent periods, adding up to no more than six years total from the beginning date of the Original Contract, by executing a signed Amendment prior to the expiration of this Contract.

### Section 4 DEFINITIONS

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**4.1 Definitions.** This Contract includes the following definitions:

**“Agency”** means Department of Natural Resources (DNR).

**“Contract”** and **“Contract Declarations & Execution Page”** means this DNR Standard Contract, any Attachments or Exhibits attached to and included as part of this DNR Standard Contract, and the DAS General Terms and Conditions.

**“Contract”** includes the first page of this DNR Standard Contract, which includes the Contractor and DNR signatures.

**“DAS General Terms and Conditions”** means the DAS General Terms and Conditions effective May 1, 2016 and found at <https://das.iowa.gov/procurement/terms-and-conditions>.

**“Deliverables”** means all of the goods, products, services, work, work product, items, materials and property to be created, developed, produced, delivered, performed or provided by or on behalf of, or made available through, Contractor (or any agent, contractor or subcontractor of Contractor) in connection with this Contract.

**“Attachments”** means any Attachments or Exhibits attached to and included as part of this Contract.

**“Task Milestone Date”** means a deadline for accomplishing a Task required by this Contract.

### Section 5 STATEMENT OF WORK

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**5.1 Statement of Work.** Contractor must perform the following Tasks by the Task Milestone Dates set out in the following table:

<b>Deliverables</b>	<b>Task Milestone Date</b>
<b>Task 1: Mobilization and Installation of Treatment Equipment</b> <b>Description:</b> Ordering, delivery and installation of all materials and equipment as detailed in Appendix A.	No later than 10 days after the Contract is signed or an agreed upon date with DNR.

<p><b>Task 2: Treatment Initiation for water in Basin C located in Marengo, Iowa</b>  <b>Description:</b> Continuous treatment of 100% (or maximum achievable liquid drawdown) of Basin C water to less than 2 ng/L of PFOA and PFOS, less than 5 ng/L for GenX Chemicals and 3 ng/L for PFBS.</p> <p>DNR staff will take one set of influent, midpoint, and effluent samples from each treatment train for PFAS components that is required at startup and stabilization of the treatment process to ensure efficacy of treatment. Water will be discharged into the City of Marengo’s Wastewater Treatment Plant equalization basin until results are received (approximately 7 days). Treatment of Basin C water must continue uninterrupted during the waiting time and receipt of the analytical PFAS lab sample results. When the results demonstrate that the treatment limits are met, water can then be discharged to the agreed upon discharge point outlined in Appendix A.</p> <p>If the analytical results do not show that the treatment process is meeting treatment goals, the process shall be fixed and the water discharged into the City of Marengo’s Wastewater Treatment equalization basin to be re-treated until the treatment goals are met.</p>	<p>No later than 10 days after completion of Task 1 or an agreed upon date with DNR. Provide 24-hour notice to DNR before discharge into the equalization basin.</p>
<p><b>Task 3: Continuous Treatment of water and Completion of Treatment of water in Basin C</b>  <b>Description:</b> Continuous Treatment of Basin C for 100% of the water in the basin or until the maximum achievable liquid drawdown is accomplished. See Appendix A for Treatment of Basin C details.  Any spillage from the treatment process will need to be re-treated.</p>	<p>No later than 30 days after the completion of Task 2 or on an agreed upon date with DNR.</p>
<p><b>Task 4: Removal, Demobilization of Treatment Equipment, Waste Removal, Site Restoration</b>  <b>Description:</b> Removal of all equipment, materials and waste materials resulting from treatment including waste and sludge from the equipment, bag filters, and waste from the treatment media. Site is restored to pre-project conditions after project completion according to the details outlined in Appendix A.</p>	<p>No later than 30 days after completion of Task 3 or on an agreed upon date with DNR.</p>

**5.1 Stop Services.** In addition to its other remedies described herein; DNR has the right, at any time during the Contract term, to direct the services of Contractor fully or partially suspended or stopped, if the Deliverables fail to conform to applicable specifications and requirements in this Contract. DNR must give Contractor written notice of a stop-work directive. DNR must provide to Contractor the reasons for the stop-work directive.

**5.2 Industry Standards.** Services rendered pursuant to this Contract must be performed in a professional and workmanlike manner in accordance with the Terms of this Contract and the standards of performance considered generally acceptable in the relevant industry for similar tasks and projects. In the absence of a detailed specification for the performance of any portion of this Contract, the parties agree that the applicable specification will be the generally accepted industry standard.

## Section 6 MONITORING AND REVIEW

**6.1 Task Milestone Dates.** Contractor must complete its obligations under this Contract by the Task Milestone Dates set out in Section 5.1.

Failure by Contractor to complete the above-designated portions of its obligations by the Task Milestone Dates set out herein may constitute material breach of this Contract by Contractor and may be grounds for DNR to immediately terminate this Contract for cause.

**6.2 Review Meetings.** Upon project commencement, the Project Managers will meet weekly to discuss progress made by the Contractor during the performance of this Contract. The meetings will occur, either in person or by telephone or video conference call, at a mutually agreed upon time. Meetings may be postponed, only on a case-by-case basis, by mutual written agreement of the parties.

**6.3 Status Reports.** The status of the project will be discussed at the weekly review meetings. At least one week prior to each scheduled review meeting, the Contractor's Project Manager will provide the DNR with a status report listing:

- Accomplishments during the previous period,
- Activities planned for the upcoming period,
- Tasks completed or Deliverables produced during the previous period,
- An updated schedule of upcoming Deliverables,
- Any problems or concerns encountered since the last meeting, and
- An explanation of any deviations from the financial and hourly expenditures contained in the Contractor's Proposal, if applicable.

At the next scheduled meeting after which any party has identified a problem in writing, the party responsible for resolving the problem must provide a report setting forth activities undertaken, or to be undertaken, to resolve the problem(s), together with the anticipated completion dates of such activities. Any party may recommend alternative courses of action or changes that will facilitate problem resolution.

**6.4 DNR right to review and observe.** DNR has the right to review and observe, at any time, completed work or work in progress. Contractor must allow the State of Iowa or DNR, without cost, to inspect its facilities, books and records relating to invoicing and time records for the purpose of monitoring and evaluating performance of this Contract.

## Section 7 COMPENSATION

**7.1 Source of Funding.** The authority to enter into this Contract is Iowa Code section 455A.4(6); *see also* Iowa Code sections 455B.172 through 455B.174, and section 455B.387. The source of funding for this Contract is American Rescue Plan Act funds.

**7.2 Not-to-exceed total amount of Contract.** Payment for the work performed by Contractor according to the Terms of this Contract must not exceed \$834,740. Payment will be for satisfactory completion of the Statement of Work contained in Section 5, including all applicable Attachments and Exhibits, provided that Contractor has complied with the Terms of this Contract.

**7.3 Budget.**

Task	Amount of compensation allotted to Task	Invoice Due No Later Than
<b>Task 1: Ordering,</b> Mobilization and Installation of Treatment Equipment	Not to exceed \$145,414	No later than 10 days after the contract is signed
<b>Task 2:</b> Treatment Initiation for Basin C water	Not to exceed \$124,584	No later than 10 days after completion of Task 1
<b>Task 3:</b> Continuous Treatment of Basin C water and Completion of Treatment	Not to exceed \$434,337	No later than 30 days after the completion of Task 2
<b>Task 4:</b> Removal, Demobilization of Treatment Equipment, Waste Removal, Site Restoration	Not to exceed \$130,405	No later than 30 days after completion of Task 3
<b>Total</b>	Not to exceed \$834,740	

**7.4 Submission of Invoices.** Invoices must be submitted to DNR according to the due dates established in Section 7.3. Invoices must contain the DNR Contract Number found on the first page of this DNR Standard Contract. Each invoice must itemize the work performed by Task including service period pursuant to the Contract Each invoice

must comply with all applicable rules concerning payment of such claims and must contain appropriate documentation necessary to support the fees or charges included in the invoice. DNR has the right to dispute any invoice item submitted for payment and to withhold payment of any disputed amount if DNR reasonably believes the invoice is inaccurate or incorrect in any way. Original invoices must be submitted to:

Iowa Department of Natural Resources  
Attention: Lori McDaniel  
Wallace State Office Building  
502 E 9th St  
Des Moines, IA 50319

**7.5 Payment of Invoices.** DNR will pay approved invoices in arrears and in conformance with Iowa Code section 8A.514. Unless otherwise agreed to in writing by the parties, the Contractor will not be entitled to receive any other payment or compensation from the State for any services provided by or on behalf of the Contractor under this Contract. Payment will be issued to:

Tetrasolv Services  
Attention: Doug Dallmer  
444 E 29th St  
Anderson, IN 46016

**7.6 No advance payment.** No advance payments will be made for any Deliverables provided by Contractor pursuant to this Contract.

**7.7 Delay of Payment Due to Contractor's Failure.** If DNR determines that the Contractor has failed to perform or deliver any Deliverable required by this Contract, then the Contractor is not entitled to any compensation or any further compensation, if compensation has already occurred, under this Contract until such Deliverable is performed or delivered. DNR will withhold that portion of the invoice amount which represents payment for the Deliverable that was not completed, delivered and successfully deployed.

**7.8 Withholding Payments.** In addition to pursuing any other remedy provided herein or by law, DNR may withhold compensation or payments to Contractor, in whole or in part, without penalty to DNR or work stoppage by Contractor, in the event DNR determines that (1) Contractor has failed to perform any of its duties or obligations as set forth in this Contract; or (2) any Deliverable has failed to meet or conform to any applicable contract specification.

No interest will accrue or be paid to Contractor on any compensation or other amounts withheld or retained by the DNR under this Contract.

**7.9 Erroneous Payments and Credits.** Contractor must promptly re-pay or refund to DNR the full amount of any overpayment or erroneous payment within ten business days after either discovery by Contractor or notification by DNR of the overpayment or erroneous payment.

**7.10 Set-off Against Sums Owed by Contractor.** In the event that Contractor owes DNR or the State any sum (including any State taxes in arrears) under the Terms of this Contract, any other contract, pursuant to a judgment, or pursuant to any law, DNR may set off such sum against any sum invoiced to DNR by Contractor. This may be done in DNR's sole discretion unless otherwise required by law.

**7.11 Reimbursable Expenses.** There will be no reimbursable expenses associated with this Contract separate from the compensation referred to in this section, unless agreed to by both parties in an Amendment to this Contract executed by both parties. Unless otherwise specifically provided for in this Contract, Contractor must be solely responsible for all of its costs and expenses, including travel, mileage, meals, lodging, equipment, supplies,

personnel, training, salaries, benefits, insurance, conferences, long distance telephone, and all other costs and expenses of the Contractor. This language supersedes the DAS General Terms and Conditions language regarding reimbursement of expenses.

**7.12 Final Payment.** By accepting final payment or a termination settlement under this Contract, the Contractor releases all claims against DNR arising under, or by virtue of, this Contract, except claims which are specifically exempted by the Contractor. Unless otherwise provided in this Contract, by State law or otherwise expressly agreed to by the parties to the Contract, final payment under a settlement upon termination of this Contract must not constitute a waiver of DNR's claims against the Contractor, or the Contractor's sureties under this Contract or applicable performance and payment bonds.

## **Section 8 INSURANCE**

**8.1. Insurance.** Contractor must obtain insurance as identified in the DAS General Terms and Conditions; and as follows:

<b>Type of Insurance</b>	<b>Amount</b>
General Liability Insurance (including contractual liability) written on an occurrence basis	Aggregate \$2,000,000
	Personal Injury \$1,000,000
	Each Occurrence \$1,000,000
Product Liability	Each Occurrence \$1,000,000
Personal Injury	Each Occurrence \$1,000,000
Property Damage Insurance	Each Occurrence \$1,000,000
Workers Compensation and Employer Liability Insurance	As required by Iowa law

The Contractor must submit a Certificate of Insurance, which indicates coverage and notice provisions as required by this Contract, to the DNR. The certificates will be subject to approval by the DNR. The insurer must state in the certificate that no cancellation of the insurance may be made without at least thirty (30) days written notice to the DNR. Approval of the insurance certificates by the DNR will not relieve the Contractor of any obligation under this Contract.

## **Section 9 FEDERAL FUNDING CONDITIONS**

**9.1.** The Contractor must comply with all applicable Federal requirements, including but not limited to 2 CFR Chapter I, Chapter II, Part 200, et al. (Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards; Final Rule).

## **Section 10 USE OF THIRD PARTIES AND SUBCONTRACTORS**

**10.1** The Contractor may contract with third parties for the performance of the Contractor's obligations under this Contract only to the extent specified below. The following Conditions will apply when contracting with third parties for the performance of any obligations under this Contract:

- 10.1.1** All subcontracts will be subject to prior approval by the DNR. The DNR's consent must not be deemed in any way to provide for the incurrence of any obligation of DNR in addition to the remuneration agreed upon in this Contract. Any subcontract to which DNR has consented must be in writing and will in no way alter the Terms and Conditions of this Contract.
- 10.1.2** The Contractor may enter into subcontracts to complete the work required by this Contract provided that the Contractor remains responsible for all services performed under this Contract. No subcontract or delegation of work will relieve or discharge the Contractor from any obligation, provision, or liability under this Contract. The Contractor will remain responsible for such performance and will be fully responsible and liable for all acts or omissions of any subcontractor.
- 10.1.3** All restrictions, obligations and responsibilities of the Contractor under this Contract also must apply to the subcontractors.

- 10.1.4** DNR will have the right to request the removal of a subcontractor from the Contract for good cause. The Contractor must indemnify, defend and hold harmless DNR and the State from and against any and all claims, demands, liabilities, suits, actions, damages, losses, costs and expenses of every kind and nature whatsoever arising as a result of Contractor's breach of any subcontract in which it enters, including Contractor's failure to pay any and all amounts due by Contractor to any subcontractor.
- 10.1.5** Each subcontract must contain provisions for DNR access to the subcontractor's books, documents, and records and for inspections of work, as required of Contractor herein.
- 10.1.6** Any action of a subcontractor, which, if done by Contractor, would constitute a breach of this Contract, will be deemed a breach by Contractor and have the same legal effect.
- 10.1.7** If delay results from a subcontractor's conduct, from the Contractor's negligence or fault, or from circumstances, which by the exercise of reasonable diligence, the Contractor should have been able to anticipate or prevent, then the Contractor will be in default.
- 10.1.8** If the Contract is subject to the provisions of Iowa Code chapter 8F, then the Contractor must comply with Iowa Code chapter 8F with respect to any subcontract the Contractor enters into pursuant to this Contract. Any compliance documentation, including but not limited to certification, received from any subcontractor must be forwarded to DNR immediately

## **Section 11 GENERAL TERMS AND CONDITIONS**

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**11.1 DAS General Terms and Conditions.** Except as otherwise stated in this DNR Standard Contract, the General Terms and Conditions for this Contract are the DAS General Terms and Conditions for Services, which may be found at <https://das.iowa.gov/procurement/terms-and-conditions>.

In addition to any other exceptions to or supersession of the DAS General Terms and Conditions contained in this DNR Standard Contract, the following portions of the DAS General Terms and Conditions are excluded from this Contract:

- 1.10.5 (Change Order), and
- 1.11 (Legislative Changes).

## **Section 12 CONFLICT BETWEEN DNR STANDARD CONTRACT AND DAS GENERAL TERMS AND CONDITIONS**

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**12.1** If there is a conflict between the DNR Standard Contract and the DAS General Terms and Conditions, the DNR Standard Contract will prevail.

### **For DNR use only:**

1. Retain a copy of the executed Contract in the project file and send a hardcopy with 1<sup>st</sup> invoice for payment to Budget & Finance.
2. Email a copy of the executed Contract to [Jenny.Miller@dnr.iowa.gov](mailto:Jenny.Miller@dnr.iowa.gov) (please name the subject line your Contract #).
3. For Capitals Funded Contract, also email a copy to [kara.bryant@dnr.iowa.gov](mailto:kara.bryant@dnr.iowa.gov) (please name the subject line your Contract #).





February 7, 2023

Lori McDaniel  
Water Quality Bureau Chief at Iowa Department of Natural Resources

Subject - Marengo, IA Stormwater Detention Pond Cleanup

Dear Ms. McDaniel,

Thank you for the opportunity to quote you the cleanup at the Marengo, IA detention pond cleanup. We are partnering with Rain for Rent to provide the technical expertise for PFAS removal with excellent local coverage and service by Rain for Rent to meet your project needs.

**Project scope and treatment plans:**

Water will be pumped into weir tanks

Water then pumped and treated by four 8'D activated carbon tanks. The tanks will be set up in 2 trains being lead lag dividing the flow to between them.

The flow rate is 500 gpm or 250 gpm per system.

The max rating of each system is 300 gpm or 600 gpm total

The EBCT based on new beds is 12.5 minutes per tank or 25 minutes total for the 500 gpm water flow.

The velocity through the 8'D beds will be 5 gpm/ft<sup>2</sup>.

The target goal is Continuous treatment of 100% of Basin C water to less than 2 ng/L of PFOA and PFOS, less than 5 ng/L for GenX Chemicals and 3 ng/L for PFBS. With the raw water containing 41.8ng/L of PFAS/PFOS and 5 ng/l of GenX chemicals, the carbon will need to remove 95% of the PFOA/PFOS.

Recommended carbon treatment is a water velocity between 1 and 6 gpm/ft<sup>2</sup> of carbon bed and with a minimum of 10 minutes EBCT with clean carbon. The designed treatment exceeds those parameters.

Attached is a chart showing the carbon removal efficiency for various PFAS/PFOS compounds. The majority being greater than 95% removal with activated carbon.

Water then tested and discharged accordingly. While water is being tested for PFAS, the water will initially be diverted to the City of Marengo's WWTP until testing is completed and approved for discharge into the stormwater diversion channel.

Required time assuming 24/7 operations to treat 12.9 MM gallons will be 21 days

Project will be set up on privately owned land.

Tetrasolv will rent the land and handle all land owner responsibilities.

Onsite operators will maintain pumps and water levels in the frac tanks. An operator log sheet will be created to monitor the following

Flow rate into the system and through each set of carbon adsorbers targeting 250 gpm per each system.

Totalizer flow

Fuel levels

Frac tank levels

Pressure in and out of each vessel of the system

Pump RPM and performance

Samples will be pulled by DNR with assistance by operators for inlet, outlet and between the carbon units.

At conclusion of project.

The activated carbon will be removed from the carbon vessels and placed into supersacks

The spent carbon will be profiled and sent to a reactivation facility where the carbon will be regenerated.

All contaminants including PFAS and Diesel will be off gassed from the carbon and thermally incinerated.

The cleanup and resulting waste will be recycled to minimize the environmental impact.

**Equipment to be provided:**

Rain for Rent (RFR) with Tetrasolv Services Inc will provide the following:

Delivery, installation, removal, pickup of all quoted materials/equipment.

The rental equipment provided will include two (2) 4" diesel pumps (1 low head, 1 high head), three (3) weir tanks, three (3) BF1000 Bag Filters, secondary containment (pumps, tanks, and filters), two (2) light towers, three (3) hydronic heaters, 2,000' of 6" HDPE pipe, and the necessary hoses, fittings, and adapters to connect the supplied equipment.

System includes:

Pump(s): 2

Weir Tank(s): 3

Bag Filter(s): 3

Light Tower(s): 2

Heater(s): 3

8'D – 10,000 lb activated carbon adsorbers: (4)

40,000 lbs of Calgon F400 activated carbon delivered and installed in the vessels

Forklift will be used to move carbon and equipment onsite

System is designed to operate at a flow rate of up to 500 gpm.

The water source location will be Basin C and discharging into the diversion stormwater channel.

Vehicles will range from F-150, Dodge 3500 Flat Bed Truck, F550 Flatbed Trucks, F-550 Service Truck, Hino 268 flatbed with Hurricane vacuum trailer and full size Tractor/Flatbed Trailer

**Key Personnel for this project:**

Aaron Mowery / Industrial Sales Representative / Rain for Rent

Local representation and available for onsite service

6 years experience in water treatment and equipment rentals

Andrew Schaeffer / Branch Manager / Rain for Rent  
Local representation and available for onsite service  
10 years experience in water treatment and equipment rentals

Peter Horrall / Field Manager / Tetrasolv Services  
Startup and applications manager for emergency spill response  
10 years experience in water filtration and treatments services

Doug Dallmer / President / Tetrasolv Services  
Coordinator and Technical support for PFAS treatment  
22 years experience in activated carbon and water treatment

***Customer Responsibilities:***

DNR with assistance by operators will pull water samples and have analyzed for all relevant parameters to discharge to environment including PFOA and PFOS, GenX Chemicals and PFBS.

**Project Scheduling & Billing**

This quote is valid for 30 days. Billing will be provided in the contract from DNR.

**Estimated schedule durations:**

Mobilization: 3 days

Installation: 4 days

Operation: 21 days (2 employees per 12-hours shift

Removal: 3 days

Demobilization: 3 days

System Rental Duration: 28 days onsite

**Adders or Deductions:**

If the heating system is not required or limited use, appropriate deductions will be made for the reduction in fuel consumption. The entire heating system will be installed and ready for use upon startup.

Any adjustments to the contract will be made per mutually agreed upon terms through the contract amendment process.

**Pricing**

<b>PROJECT COSTS</b>	
Estimated Rental Total	\$123,898
Estimated Environmental Recovery Fees	\$3810
<b>Total Estimated Recurring Charges</b>	<b>\$127,708</b>
<b>PROJECT COSTS</b>	
Estimated Sale Total for material delivered	\$96876
<b>SERVICES</b>	
Estimated Delivery	\$58514
Estimated Installation	\$86900
Estimated Removal	\$69375
Estimated Pickup	\$61030
Estimated Services	\$334337
<b>GRAND TOTAL</b>	<b>\$834,740.00</b>

Any questions please do not hesitate to contact me,  
Sincerely,



Doug Dallmer  
Tetrasolv Services  
713.703.6516  
[ddallmer@tetrasolv.com](mailto:ddallmer@tetrasolv.com)

