December 20, 2013

Re: Request for Quotations for Re-coating the metal components on two Gravity Thickeners.

Gentlemen:

The New Hampshire Department of Environmental Services (DES) operates a regional wastewater treatment facility located at 528 River Street, Franklin, New Hampshire under its Winnipesaukee River Basin Program (WRBP). The Department is soliciting bids for re-coating the metal components on two gravity thickeners. The bidding process will result in a service contract with the State of New Hampshire which must receive approval of the Governor and Executive Council of the State of New Hampshire. Any company doing business with the State of New Hampshire must be registered and in good standing with the Secretary of State's Office.

If the contractor wishes to bid on this work, bids must be completed by the contractor and returned by 1:00 P.M. on January 10, 2014.

The contractor will be solely responsible for errors or omissions; therefore, it is strongly suggested each bidder arrange a visit prior to finalizing their quotation. This will provide contractors an opportunity to evaluate access to the work sites and to evaluate the level of effort needed to complete the work.

Because the gravity thickeners are in operation throughout the summer and autumn months, and due to our solids loading at the treatment plant, the gravity thickeners will not be available for painting until April 1, 2014.

There will be approximately one week after completion of the work in the first gravity thickener before the second tank will be available to the contractor. Plant staff will have to put the completed tank into service and empty and clean the second tank before it will be available to the contractor. All of this takes a period of at least one week, provided weather conditions are favorable and that flow into the plant isn't high because of rain or high ground water levels.

ADDITIONAL REQUIREMENTS

The plant's gravity thickeners when empty requires a confined space entry check list before entering. The WWTP operates an active safety program, with a safety committee and designated Safety and Health Coordinator. The selected contractor will be expected to comply with all applicable state and federal worker safety laws and regulations including those dealing with potentially hazardous places. In Attachment B, figure 7.1 is a listing which shows expected hazards and required precautions for the gravity thickeners. Prior to beginning work, the contractor must provide WRBP a copy of the safety program that the contractor intends to follow or provide details of the contractor's safety program. The contractor is responsible for all the safety equipment required in Figure 7.1. and, as necessary, to comply with federal, state and local regulations.

All work, shall be completed by May 30, 2014.

THE PROPOSED CONTRACT

We include herein a blank copy of a standard state service contract (P-37), as well as EXHIBITS A, B and C. We suggest you review the general contract conditions shown on the P-37 Agreement. Note that the contractor is required to carry the insurance specified in Exhibit C. Should your firm be selected to do the work, we will send you a "Notice of Intent to Award", along with a contract for execution, instructions for completing a "corporate resolution" for the work, and for obtaining a current "Certificate of Existence" (or good standing) from the Secretary of State's Office. **If your company is not registered with that office, you will have 14 days to become registered. If the company is not registered at the end of 14 days, it will be at the Department's option to disregard the company's quotation.** When the contract is returned to us, it will be executed by the New Hampshire Department of Environmental Services Commissioner, and approved by the Attorney General's office. As noted earlier, the contract will require the authorization of the Governor and Executive Council of the State of New Hampshire. This authorization process currently takes 8 to 12 weeks after the contract is returned to us.

CONTACT PERSONS

All inquiries regarding this request for quotations should be directed to Ken Noyes or Art O'Connell at the treatment plant at (603) 934-4032.

BID SUBMISSION

Contractors who wish to quote the work must complete Exhibit B "Cost and Terms of Payment". It is required the contractor has 4 years experience in industrial painting at wastewater treatment plants or similar structures. Three references are required when submitting bids. References require company name, contact name and phone number.

Contractors who wish to quote the work must complete Exhibit "B" Cost and Terms of Payment. Please submit your bid by 1:00 P.M. on January 10, 2014, to the NH Department of Environmental Services, Franklin Wastewater Treatment Plant, P.O. Box 68, 528 River Street, Franklin, New

Hampshire 03235, Attention: Ken Noyes. Bids can be faxed to the plant at (603) 934-4831 emailed to kenneth.noyes@des.nh.gov or sent in sealed envelopes that are clearly marked "Franklin NH WWTP Thickeners Paint Quotation. If faxed or emailed must confirm receipt.

Basis of award is the low Total Bid from a qualified contractor submitted before the specified time limit. The WRBP reserves the right to: determine what constitutes a conforming bid; to determine if a bidder is qualified; to waive irregularities that considers not material to the bid; and award the bid solely as it deems to be in the best interest of the State.

We look forward to your bidding our work. If you have any questions, please contact us.

Sincerely,

Kenneth Noyes
Chief Operator

KN
Attachment
cc: Steven Dolloff, WRBP-Franklin
Art O'Connell, WRBP-Franklin

[Des:fran1\grp\common\Painting RFQ/2014/rfq CL Thickeners painting 2014]

EXHIBIT "A"
THE SERVICES

1.01 Scope of Work

The recoating of the sludge thickeners includes the steel scum baffle, steel rake arm, steel skimmer arm, steel scum though, steel center baffle, steel center support structure, steel center drive mechanism, steel rake arm support structure and steel catwalk. The two sludge thickeners are 35 feet in diameter with a side wall depth of 10 feet and a bottom slope of 2-3/4 inches per foot. The aluminum domes which cover each sludge thickener are not to be recoated. However it is not inclusive of all the steel work which shall be recoated under this specification and there are several appurtenances, brackets, flapper valves, scrapers and other miscellaneous small items which have not been specifically identified in this specification.

The major components of steel work associated with the thickeners to be recoated are listed as follows. However it is not inclusive of all the steel work which shall be recoated under this specification and there are several appurtenances, brackets, flapper valves, scrapers and other miscellaneous small items which have not been specifically identified in this specification.

Metal Work For Each Individual Sludge Thickener

0 Scum baffle is approximately 33.5 ft. diameter 12" × 1/4" plate

0 Catwalk support beams is approximately 36 ft. 8", a 16" web 7" flange with ties between the two beams.

0 Scum trough is approximately 6ft. 6" × 3 ft. × 1 ft. 3" (L × W × H)

0 Skimmer arm is approximately 15 ft. 9" long × 8" wide × 5" deep box tube support with attached skimmer plate 15 ft. × 6" × 1/4"

0 Rake arm truss is approximately 32 ft. 10" long – 7 ft. at center tapering ro 3 ft. at both ends.

0 Rake arm drive is approximately 16 ft. 6" long × 8" diameter.

0 Center baffle well is approximately 3 ft. 6" high × 6 ft. diameter.

0 Dorr-Oliver drive unit is approximately 3 ft. diameter × 2.5 feet high.

1.03 Surface Preparation of ALL Metal Components

The surface of all metal components to be recoated shall be prepared according to Steel Structures Painting Council method SP10 – Near White Metal Blast Cleaning. All materials used in the surface preparation of the components to be recoated, including but not limited to solvents and blasting grit must be collected, removed and disposed of by the contractor in accordance with all applicable federal, state and local regulations governing such waste.

1.04 Primer Coating for Catwalks and Rake Arm Drive Assemblies

Primer coating shall be Sherwin Williams Corothane I – Zinc Primer and shall be applied the same day as the surface is prepared or in strict accordance with the manufacturer's instructions for a conventional spray paint application of the product.

1.05 Primer Coating Remaining Metal Work

No primer coating needed.

1.06 Finish Coating for Catwalks and Rake Arm Drive Assemblies

Finish coating of catwalk and rake arm drive assembly shall be Sherwin Williams Corothane I Aliphatic Urethane. The color shall be Turbine Blue (SW4064) applied to a dry film thickness of 6 mils in any number of coating applications as recommended by the manufacture to attain the desired dry film thickness.

1.07 Finish Coating Remaining Metal Work

Finish coating shall be Sherwin Williams Hi-Mil Sher-Tar Epoxy. No other product will be considered. The color shall be black. The finish coating shall be applied in strict accordance with the manufacturer's instruction for a conventional spray paint application of its product. The finish coating shall be applied to a minimum of 20 mils dry film thickness, in any number of coating applications as recommended by the manufacturer to attain the desired dry film thickness. *Note: WRBP staff will measure the thickness of the existing paint after etching to make sure that the required 20 mils dry film thickness is achieved.*

Acceptance or rejection of work shall be made by WRBP staff and contractor shall be responsible for any and all corrective measures required to produce an acceptable coating.

Contractor Responsibilities

The successful bidder shall provide all labor, materials, services, tools, equipment, transportation and facilities to complete the Scope of Work. It shall be the sole responsibility of the contractor awarded the project to comply with all local, state and federal rules and regulations in the commission of the work requested by this specification. The contractor shall be responsible for disposal of all waste products in accordance with all applicable federal, state and local regulations governing such waste. All work shall be performed in a neat and workmanlike manner in conformance with best modern trade practices by competent, experienced workers. All materials used shall be applied in strict accordance with the manufacturer's instructions. Work must be completed during normal treatment plant working hours of Monday-Friday, 7:00 A.M. to 3:15 P.M., unless otherwise mutually agreed upon arrangements are made with the WRBP.

Information contained in the State's Request for Quotations, dated December 20, 2013, is hereby included in Exhibit A by reference.

EXHIBIT B

COST PROPOSAL AND TERMS OF PAYMENT

DESCRIPTION

Recoating of Gravity Thickener # 1 as described in Exhibit "A"

$_____
Amount in Figures

_____
Amount in Words

Recoating of Gravity Thickener # 2 as described in Exhibit "A"

$_____
Amount in Figures

_____
Amount in Words

Contractor to be paid within thirty (30) days of submission of invoice at satisfactory completion of work. Approval of this work does not authorize any expenditure over the price limitation.

I (We) agree to furnish the services specified in Exhibit A at the cost shown above.

_____
Company Name

EXHIBIT "C"

Item 1

Waste disposal by Contractor shall be in accordance with all applicable federal, state and local regulations governing such waste.

EXHIBIT "C"
SPECIAL PROVISIONS
Continued

Delete P-37 Agreement item 14.1.1 which reads: "comprehensive general liability insurance against all claims of bodily injury, death or property damage, in the amounts of not less than $250,000 per claim and $2,000,000 per occurrence;"

Replace P-37 Agreement item 14.1.1 with the following: "comprehensive general liability insurance against all claims of bodily injury, death or property damage, in the amounts of not less than $250,000 per claim and $2,000,000 per occurrence or in amounts of no less $1,000,000 per occurrence and no less than $1,000,000 excess/umbrella liability insurance".

Print Form

Subject: FORM NUMBER P-37 (version 1/09)

AGREEMENT

The State of New Hampshire and the Contractor hereby mutually agree as follows:

GENERAL PROVISIONS

1. IDENTIFICATION.

1.1 State Agency Name	1.2 State Agency Address
1.3 Contractor Name	1.4 Contractor Address
1.5 Contractor Phone Number / 1.6 Account Number	1.7 Completion Date / 1.8 Price Limitation
1.9 Contracting Officer for State Agency	1.10 State Agency Telephone Number
1.11 Contractor Signature	1.12 Name and Title of Contractor Signatory

1.13 Acknowledgement: State of _____, County of _____

On _____, before the undersigned officer, personally appeared the person identified in block 1.12, or satisfactorily proven to be the person whose name is signed in block 1.11, and acknowledged that s/he executed this document in the capacity indicated in block 1.12.

1.13.1 Signature of Notary Public or Justice of the Peace

[Seal]

1.13.2 Name and Title of Notary or Justice of the Peace

1.14 State Agency Signature	1.15 Name and Title of State Agency Signatory

1.16 Approval by the N.H. Department of Administration, Division of Personnel *(if applicable)*

By: Director, On:

1.17 Approval by the Attorney General (Form, Substance and Execution)

By: On:

1.18 Approval by the Governor and Executive Council

By: On:

2. EMPLOYMENT OF CONTRACTOR/SERVICES TO BE PERFORMED. The State of New Hampshire, acting through the agency identified in block 1.1 ("State"), engages contractor identified in block 1.3 ("Contractor") to perform, and the Contractor shall perform, the work or sale of goods, or both, identified and more particularly described in the attached EXHIBIT A which is incorporated herein by reference ("Services").

3. EFFECTIVE DATE/COMPLETION OF SERVICES.
3.1 Notwithstanding any provision of this Agreement to the contrary, and subject to the approval of the Governor and Executive Council of the State of New Hampshire, this Agreement, and all obligations of the parties hereunder, shall not become effective until the date the Governor and Executive Council approve this Agreement ("Effective Date").
3.2 If the Contractor commences the Services prior to the Effective Date, all Services performed by the Contractor prior to the Effective Date shall be performed at the sole risk of the Contractor, and in the event that this Agreement does not become effective, the State shall have no liability to the Contractor, including without limitation, any obligation to pay the Contractor for any costs incurred or Services performed. Contractor must complete all Services by the Completion Date specified in block 1.7.

4. CONDITIONAL NATURE OF AGREEMENT.
Notwithstanding any provision of this Agreement to the contrary, all obligations of the State hereunder, including, without limitation, the continuance of payments hereunder, are contingent upon the availability and continued appropriation of funds, and in no event shall the State be liable for any payments hereunder in excess of such available appropriated funds. In the event of a reduction or termination of appropriated funds, the State shall have the right to withhold payment until such funds become available, if ever, and shall have the right to terminate this Agreement immediately upon giving the Contractor notice of such termination. The State shall not be required to transfer funds from any other account to the Account identified in block 1.6 in the event funds in that Account are reduced or unavailable.

5. CONTRACT PRICE/PRICE LIMITATION/ PAYMENT.
5.1 The contract price, method of payment, and terms of payment are identified and more particularly described in EXHIBIT B which is incorporated herein by reference.
5.2 The payment by the State of the contract price shall be the only and the complete reimbursement to the Contractor for all expenses, of whatever nature incurred by the Contractor in the performance hereof, and shall be the only and the complete compensation to the Contractor for the Services. The State shall have no liability to the Contractor other than the contract price.
5.3 The State reserves the right to offset from any amounts otherwise payable to the Contractor under this Agreement those liquidated amounts required or permitted by N.H. RSA 80:7 through RSA 80:7-c or any other provision of law.
5.4 Notwithstanding any provision in this Agreement to the contrary, and notwithstanding unexpected circumstances, in no event shall the total of all payments authorized, or actually made hereunder, exceed the Price Limitation set forth in block 1.8.

6. COMPLIANCE BY CONTRACTOR WITH LAWS AND REGULATIONS/ EQUAL EMPLOYMENT OPPORTUNITY.
6.1 In connection with the performance of the Services, the Contractor shall comply with all statutes, laws, regulations, and orders of federal, state, county or municipal authorities which impose any obligation or duty upon the Contractor, including, but not limited to, civil rights and equal opportunity laws. In addition, the Contractor shall comply with all applicable copyright laws.
6.2 During the term of this Agreement, the Contractor shall not discriminate against employees or applicants for employment because of race, color, religion, creed, age, sex, handicap, sexual orientation, or national origin and will take affirmative action to prevent such discrimination.
6.3 If this Agreement is funded in any part by monies of the United States, the Contractor shall comply with all the provisions of Executive Order No. 11246 ("Equal Employment Opportunity"), as supplemented by the regulations of the United States Department of Labor (41 C.F.R. Part 60), and with any rules, regulations and guidelines as the State of New Hampshire or the United States issue to implement these regulations. The Contractor further agrees to permit the State or United States access to any of the Contractor's books, records and accounts for the purpose of ascertaining compliance with all rules, regulations and orders, and the covenants, terms and conditions of this Agreement.

7. PERSONNEL.
7.1 The Contractor shall at its own expense provide all personnel necessary to perform the Services. The Contractor warrants that all personnel engaged in the Services shall be qualified to perform the Services, and shall be properly licensed and otherwise authorized to do so under all applicable laws.
7.2 Unless otherwise authorized in writing, during the term of this Agreement, and for a period of six (6) months after the Completion Date in block 1.7, the Contractor shall not hire, and shall not permit any subcontractor or other person, firm or corporation with whom it is engaged in a combined effort to perform the Services to hire, any person who is a State employee or official, who is materially involved in the procurement, administration or performance of this Agreement. This provision shall survive termination of this Agreement.
7.3 The Contracting Officer specified in block 1.9, or his or her successor, shall be the State's representative. In the event of any dispute concerning the interpretation of this Agreement, the Contracting Officer's decision shall be final for the State.

Contractor Initials _____
Date_____

8. EVENT OF DEFAULT/REMEDIES.
8.1 Any one or more of the following acts or omissions of the Contractor shall constitute an event of default hereunder ("Event of Default"):
8.1.1 failure to perform the Services satisfactorily or on schedule;
8.1.2 failure to submit any report required hereunder; and/or
8.1.3 failure to perform any other covenant, term or condition of this Agreement.
8.2 Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions:
8.2.1 give the Contractor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice; and if the Event of Default is not timely remedied, terminate this Agreement, effective two (2) days after giving the Contractor notice of termination;
8.2.2 give the Contractor a written notice specifying the Event of Default and suspending all payments to be made under this Agreement and ordering that the portion of the contract price which would otherwise accrue to the Contractor during the period from the date of such notice until such time as the State determines that the Contractor has cured the Event of Default shall never be paid to the Contractor;
8.2.3 set off against any other obligations the State may owe to the Contractor any damages the State suffers by reason of any Event of Default; and/or
8.2.4 treat the Agreement as breached and pursue any of its remedies at law or in equity, or both.

9. DATA/ACCESS/CONFIDENTIALITY/ PRESERVATION.
9.1 As used in this Agreement, the word "data" shall mean all information and things developed or obtained during the performance of, or acquired or developed by reason of, this Agreement, including, but not limited to, all studies, reports, files, formulae, surveys, maps, charts, sound recordings, video recordings, pictorial reproductions, drawings, analyses, graphic representations, computer programs, computer printouts, notes, letters, memoranda, papers, and documents, all whether finished or unfinished.
9.2 All data and any property which has been received from the State or purchased with funds provided for that purpose under this Agreement, shall be the property of the State, and shall be returned to the State upon demand or upon termination of this Agreement for any reason.
9.3 Confidentiality of data shall be governed by N.H. RSA chapter 91-A or other existing law. Disclosure of data requires prior written approval of the State.

10. TERMINATION. In the event of an early termination of this Agreement for any reason other than the completion of the Services, the Contractor shall deliver to the Contracting Officer, not later than fifteen (15) days after the date of termination, a report ("Termination Report") describing in detail all Services performed, and the contract price earned, to and including the date of termination. The form, subject matter, content, and number of copies of the Termination Report shall be identical to those of any Final Report described in the attached EXHIBIT A.

11. CONTRACTOR'S RELATION TO THE STATE. In the performance of this Agreement the Contractor is in all respects an independent contractor, and is neither an agent nor an employee of the State. Neither the Contractor nor any of its officers, employees, agents or members shall have authority to bind the State or receive any benefits, workers' compensation or other emoluments provided by the State to its employees.

12. ASSIGNMENT/DELEGATION/SUBCONTRACTS.
The Contractor shall not assign, or otherwise transfer any interest in this Agreement without the prior written consent of the N.H. Department of Administrative Services. None of the Services shall be subcontracted by the Contractor without the prior written consent of the State.

13. INDEMNIFICATION. The Contractor shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees, by or on behalf of any person, on account of, based or resulting from, arising out of (or which may be claimed to arise out of) the acts or omissions of the Contractor. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant in paragraph 13 shall survive the termination of this Agreement.

14. INSURANCE.
14.1 The Contractor shall, at its sole expense, obtain and maintain in force, and shall require any subcontractor or assignee to obtain and maintain in force, the following insurance:
14.1.1 comprehensive general liability insurance against all claims of bodily injury, death or property damage, in amounts of not less than $250,000 per claim and $2,000,000 per occurrence; and
14.1.2 fire and extended coverage insurance covering all property subject to subparagraph 9.2 herein, in an amount not less than 80% of the whole replacement value of the property.
14.2 The policies described in subparagraph 14.1 herein shall be on policy forms and endorsements approved for use in the State of New Hampshire by the N.H. Department of Insurance, and issued by insurers licensed in the State of New Hampshire.
14.3 The Contractor shall furnish to the Contracting Officer identified in block 1.9, or his or her successor, a certificate(s) of insurance for all insurance required under this Agreement. Contractor shall also furnish to the Contracting Officer identified in block 1.9, or his or her successor, certificate(s) of insurance for all renewal(s) of insurance required under this Agreement no later than fifteen (15) days prior to the expiration date of each of the insurance policies. The certificate(s) of insurance and any renewals thereof shall be

Contractor Initials _____
Date_____

attached and are incorporated herein by reference. Each certificate(s) of insurance shall contain a clause requiring the insurer to endeavor to provide the Contracting Officer identified in block 1.9, or his or her successor, no less than ten (10) days prior written notice of cancellation or modification of the policy.

15. WORKERS' COMPENSATION.
15.1 By signing this agreement, the Contractor agrees, certifies and warrants that the Contractor is in compliance with or exempt from, the requirements of N.H. RSA chapter 281-A *("Workers' Compensation").*
15.2 To the extent the Contractor is subject to the requirements of N.H. RSA chapter 281-A, Contractor shall maintain, and require any subcontractor or assignee to secure and maintain, payment of Workers' Compensation in connection with activities which the person proposes to undertake pursuant to this Agreement. Contractor shall furnish the Contracting Officer identified in block 1.9, or his or her successor, proof of Workers' Compensation in the manner described in N.H. RSA chapter 281-A and any applicable renewal(s) thereof, which shall be attached and are incorporated herein by reference. The State shall not be responsible for payment of any Workers' Compensation premiums or for any other claim or benefit for Contractor, or any subcontractor or employee of Contractor, which might arise under applicable State of New Hampshire Workers' Compensation laws in connection with the performance of the Services under this Agreement.

16. WAIVER OF BREACH. No failure by the State to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event of Default, or any subsequent Event of Default. No express failure to enforce any Event of Default shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other Event of Default on the part of the Contractor.

17. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given in blocks 1.2 and 1.4, herein.

18. AMENDMENT. This Agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto and only after approval of such amendment, waiver or discharge by the Governor and Executive Council of the State of New Hampshire.

19. CONSTRUCTION OF AGREEMENT AND TERMS. This Agreement shall be construed in accordance with the laws of the State of New Hampshire, and is binding upon and inures to the benefit of the parties and their respective successors and assigns. The wording used in this Agreement is the wording chosen by the parties to express their mutual intent, and no rule of construction shall be applied against or in favor of any party.

20. THIRD PARTIES. The parties hereto do not intend to benefit any third parties and this Agreement shall not be construed to confer any such benefit.

21. HEADINGS. The headings throughout the Agreement are for reference purposes only, and the words contained therein shall in no way be held to explain, modify, amplify or aid in the interpretation, construction or meaning of the provisions of this Agreement.

22. SPECIAL PROVISIONS. Additional provisions set forth in the attached EXHIBIT C are incorporated herein by reference.

23. SEVERABILITY. In the event any of the provisions of this Agreement are held by a court of competent jurisdiction to be contrary to any state or federal law, the remaining provisions of this Agreement will remain in full force and effect.

24. ENTIRE AGREEMENT. This Agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire Agreement and understanding between the parties, and supersedes all prior Agreements and understandings relating hereto.

Contractor Initials _____
Date_____

Figure 7.1

FRANKLIN COMPOUND

Potentially Hazardous Places Including CONFINED SPACES AS PER 29 CFR 1910.146(b) and LAB 1402.02

			POTENTIAL HAZARDS								PRECAUTIONS								
	Permit Required	Checklist Required	Low Oxygen See Note (3)	Fire / Explosion	Toxic Gases See Note (3)	Falls	Live Wires	Moving Machinery	Engulfment & Drowning	Falling Objects	Gas Meter	Harness & Tripod/Davit Arm See note (4)	Harness & Lanyard	Lockout & Tagout	Blowers See note (3)	Hard Hat	Two Man Rule	Safety Attendant	Compliance w/Lab 1403.23
OPS Building & Tunnels																			
OB Drain Pit	✓		✓	✓	✓	✓				✓	✓	✓		✓	✓	✓		✓	
All drain sumps in tunnels	✓		✓	✓	✓	✓				✓	✓	✓		✓		✓		✓	
Reaction tank	✓		✓	✓	✓	✓		✓		✓	✓		✓	✓	✓	✓		✓	
Retention tank	✓		✓	✓	✓	✓		✓		✓	✓		✓	✓	✓	✓		✓	
Headworks																			
Influent chamber before headworks	✓		✓	✓	✓	✓			✓	✓	✓	✓				✓		✓	
Flow channels		✓	✓	✓	✓	✓			✓		✓		✓					✓	
Aerated grit chambers empty See note (1)		✓	✓			✓		✓		✓	✓			✓		✓	✓		
Grit chamber channels		✓	✓	✓		✓			✓		✓							✓	
Primary Treatment																			
Primary Clarifier splitter box	✓		✓	✓	✓	✓			✓	✓	✓		✓			✓		✓	
Primary Clarifier empty See note (1)						✓		✓		✓	✓			✓		✓	✓		
Clarifier scum wells	✓		✓	✓	✓	✓				✓	✓	✓		✓	✓	✓		✓	
Clarifier launders		✓				✓			✓	✓			✓			✓		✓	
Aeration Tanks																			
Aeration tank splitter box	✓		✓	✓	✓	✓			✓	✓	✓		✓			✓		✓	
Aeration tanks clean and empty See note (1)										✓						✓	✓		
Secondary Clarification																			
Secondary clarifier splitter box	✓		✓	✓	✓	✓			✓	✓	✓		✓			✓		✓	
Secondary clarifier empty See Note (1)						✓				✓						✓	✓		
Clarifier launders		✓				✓			✓	✓			✓			✓		✓	
Clarifier scum wells	✓		✓	✓	✓	✓				✓	✓	✓		✓	✓	✓		✓	
Secondary station drain pit exterior	✓		✓	✓	✓	✓				✓	✓	✓			✓	✓		✓	
Secondary flume chamber	✓		✓			✓			✓	✓	✓	✓				✓		✓	
Disinfection Facilities																			
UV inlet chamber	✓		✓			✓			✓	✓	✓	✓				✓		✓	
Old contact tank, empty	✓		✓			✓				✓	✓		✓			✓		✓	
UV flow channel, empty	✓		✓			✓			✓		✓		✓					✓	
UV "bypass" channel	✓		✓			✓			✓	✓	✓		✓			✓		✓	
Contact tank, empty See note (1)						✓				✓						✓	✓		
Plant Water well, empty	✓		✓			✓				✓	✓		✓	✓		✓		✓	
UV Building Drain Pump	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
Solids Handling Area																			
Septage tanks , empty	✓		✓	✓	✓	✓				✓	✓	✓			✓	✓		✓	
Thickeners, Inspections		✓	✓	✓	✓	✓			✓		✓								
Thickeners		✓	✓	✓	✓	✓			✓		✓		✓	✓	✓	✓		✓	
Thickeners, empty		✓			✓					✓	✓					✓		✓	
Thickener valve pit	✓		✓	✓	✓	✓				✓	✓	✓			✓	✓		✓	
Thickener scum wells	✓		✓	✓	✓	✓				✓	✓	✓			✓	✓		✓	
Anaerobic digester covers Primary See note(5)				✓		✓					✓								
Anaerobic digester covers Secondary		✓	✓	✓	✓	✓					✓			✓					
Interior of primary digester covers	✓		✓	✓	✓						✓		✓		✓	✓		✓	
Tunnel 4 drain pit	✓		✓	✓	✓						✓		✓			✓		✓	
Plant Grounds/Manual Road																			
Pressure reducing valve chamber	✓		✓		✓	✓				✓	✓	✓				✓		✓	
Meter/backflow prevent or vault	✓		✓		✓	✓				✓	✓	✓				✓		✓	
Flow channels	✓		✓	✓	✓				✓		✓		✓					✓	
Catch basin sumps, 4' deep or greater	✓		✓	✓	✓	✓				✓	✓	✓				✓		✓	
Sewer manholes/drain manholes	✓		✓	✓	✓	✓				✓	✓	✓				✓		✓	
Centrate tank	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓					✓	
Electrical vaults/wire pulls, 4' deep or greater		✓	✓			✓	✓			✓	✓					✓		✓	
Training center sewage pump vault	✓		✓	✓	✓	✓	✓			✓	✓	✓				✓		✓	
UST's	✓		✓	✓	✓	✓					✓	✓			✓	✓		✓	
Trench/Excavations 4' deep or greater	✓					✓			✓	✓						✓		✓	✓
Oil Water Separator	✓		✓	✓	✓	✓			✓	✓	✓	✓			✓	✓	✓	✓	

NOTES:

(1) Clarifiers, contact Tanks and aeration tanks being taken out of service (i.e., being cleaned) they shall be entered only with gas meters and attendants. After cleaning, these tanks do not have the potential to contain a hazardous atmosphere; therefore they are not confined spaces and they may be entered without atmospheric monitoring or attendant as long as 2 workers are present at all times.

(2) Digesters being entered after cleaning or painting have the potential for low oxygen, toxic fumes, etc. and shall be entered only with mechanical ventilation (i.e. blowers). Subsequent entry to these tanks may be made without mechanical ventilation, but continuous gas monitoring and an attendant are required. Once at the floor of the digester, an entrant may disconnect from the tripod cable.

(3) In addition to locations noted, blowers shall be employed in any location which, upon testing shows low oxygen, or hydrogen sulfide. BLOWERS MUST NEVER BE USED in a situation where LEL is reading at or greater than 100 percent, since adding air to such an atmosphere will increase the potential for explosion.

(4) When set up of tripod is not feasible, use of harness and lanyard may be substituted. Whenever lanyard and harness are used, 2 attendants must be present.

(5) On Primary Digesters with ramps. When making Operations inspections or performing minor adjustments requiring less than 15 minutes, no checklist is required. For Maintenance Inspections or other work expected to last longer than 15 minutes, a checklist is required. Using the ladder on Digesters requires a check list .(Confined Space)