

COUNTY OF ROCKLAND
Department of General Services
Purchasing Division

Contract Award Notification

Title: **Laboratory Analysis of Wastewater, Pharmaceutical**

Contract Period: July 20, 2020 through July 19, 2021 with 2 one-options
Extended thru 7/19/22 w/1 year option
Extended through 7/19/23 (ALS not extended yet)

Original Date of Issue: July 20, 2020

Date of Revision: 07/29/22

BID No: **RFB-RC-2020-057**

Catalog: **Wastewater**

Authorized Users: Rockland County Sewer District # 1

Address Inquires To:

Name: Sabrina Samuels
Title: Purchaser II
Phone: 845-364-3807
Fax: 845-364-3809
E-mail: samuelss@co.rockland.ny.us

Description

This contract is for the laboratory analysis of wastewater, pharmaceutical & **butanol** wastewater samples.

Contract #	Vendor Number	Contractor & Address	Telephone No.
Bid 20-057	0000007624	Aqua Pro Tech Laboratories 1275 Bloomfield Avenue Building # 6/Suite # 37 Fairfield, NJ 07004 Contact: Matthew Cordova mcordova@aquaprotechlabs.com	973-227-0422 Ext. 33 FAX: 973-227-2813
Bid 20-057-A NOT EXTENDED YET	0000026531	ALS Environmental 1565 Jefferson Road Bldg. 300/Suite 360 Rochester, NY 14623 Contact: Michael Chevalier michael.chevalier@alsglobal.com	585-622-2631 FAX: 585-288-8475
Bid 20-057-B	0000026283	Coastal Bioanalysts 6400 Enterprise Court Gloucester, VA 23061 Contact: Peter F. DeLisle pfd@coastalbio.com	804-694-8285 FAX: 804-695-1129

COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809							
AWARD							
LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE	AWARD
SECTION I - LABORATORY ANALYSIS OF WASTEWATERS							
1	Quarterly Plant samples analysis as per the attached specifications	92685900035	6	EACH	\$50.00	\$300.00	Aqua Pro-Tech Laboratories
2	Total Metals for DI water as per the attached specifications	92685900005	1	EACH	\$90.00	\$90.00	Aqua Pro-Tech Laboratories
3	Ammonia-N	92685900009	365	EACH	\$20.00	\$7,300.00	Aqua Pro-Tech Laboratories
4	Nitrite-N	92685900010	30	EACH	\$20.00	\$600.00	Aqua Pro-Tech Laboratories
5	Nitrate-N	92685900016	30	EACH	\$20.00	\$600.00	Aqua Pro-Tech Laboratories
6	Total Kjeldahl Nitrogen as N	92685900011	40	EACH	\$40.00	\$1,600.00	Aqua Pro-Tech Laboratories
7	Phosphate, Total as P	92685900012	40	EACH	\$20.00	\$800.00	Aqua Pro-Tech Laboratories
8	Phosphate, Ortho as P	92685900013	30	EACH	\$20.00	\$600.00	Aqua Pro-Tech Laboratories
9	Cyanide, Total	92685900014	60	EACH	\$25.00	\$1,500.00	Aqua Pro-Tech Laboratories
10	Cyanide, Available (SM 4500CN-G)	92685900036	40	EACH	\$25.00	\$1,000.00	Aqua Pro-Tech Laboratories
11	Formaldehyde	92685900041	36	EACH	\$250.00	\$9,000.00	Aqua Pro-Tech Laboratories
12	Total Phenols, 4AAP	92685900015	50	EACH	\$25.00	\$1,250.00	Aqua Pro-Tech Laboratories
13	Total Organic Carbon (TOC)	92685900017	10	EACH	\$30.00	\$300.00	Aqua Pro-Tech Laboratories

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LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE	AWARD
14	Oil & Grease, Polar	92685900019	50	EACH	\$45.00	\$2,250.00	Aqua Pro-Tech Laboratories
15	Oil & Grease, Non-polar	92685900037	40	EACH	\$45.00	\$1,800.00	Aqua Pro-Tech Laboratories
16	Chloride	92685900020	12	EACH	\$25.00	\$300.00	Aqua Pro-Tech Laboratories
17	Sulfate	92685900021	50	EACH	\$25.00	\$1,250.00	Aqua Pro-Tech Laboratories
18	Residue -Total Dissolved Solids (TDS)	92685900022	15	EACH	\$25.00	\$375.00	Aqua Pro-Tech Laboratories
19	Total Mercury, cold vapor method	92685900023	50	EACH	\$35.00	\$1,750.00	Aqua Pro-Tech Laboratories
20	Total Metals, ICP	92685900024	500	EACH	\$10.00	\$5,000.00	Aqua Pro-Tech Laboratories
21	Total Metals, Graphite Furnace	92685900025	10	EACH	\$10.00	\$100.00	Aqua Pro-Tech Laboratories
22	Volatile/Purgeable Organics	92685900026	40	EACH	\$80.00	\$3,200.00	Aqua Pro-Tech Laboratories
23	Semi-Volatile Organics	92685900027	25	EACH	\$185.00	\$4,625.00	Aqua Pro-Tech Laboratories
24	Pesticides	92685900028	20	EACH	\$80.00	\$1,600.00	Aqua Pro-Tech Laboratories
25	PCBs	92685900029	25	EACH	\$70.00	\$1,750.00	Aqua Pro-Tech Laboratories
26	Sulfide	92685900048	60	EACH	\$20.00	\$1,200.00	Aqua Pro-Tech Laboratories
27	Sulfur	92685900049	60	EACH	\$40.00	\$2,400.00	Aqua Pro-Tech Laboratories
28	Methyl tert-butyl ether	92685900050	12	EACH	\$50.00	\$600.00	Aqua Pro-Tech Laboratories

<p style="text-align: center;">COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809</p>							
AWARD							
LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE	AWARD
29	Low Mercury, EPA 1631	92685000054	42	EACH	\$180.00	\$7,560.00	Aqua Pro-Tech Laboratories
30	Total Extended Price Section I			TOTAL		\$60,700.00	Aqua Pro-Tech Laboratories
SECTION II - LABORATORY ANALYSIS OF PHARMACEUTICAL & BUTANOL WASTEWATER SAMPLES							
31	Acetone-Pharmaceutical Wastewater sample analysis as per the attached specifications	92685900040	25	EACH	\$30.00	\$750.00	ALS Group USA, Corp.
32	Acetates-Pharmaceutical Wastewater sample analysis as per the attached specifications	92685900038	15	EACH	\$30.00	\$450.00	ALS Group USA, Corp.
33	Butanol-Pharmaceutical Wastewater sample analysis as per the attached specifications	92685900039	7	EACH	\$30.00	\$210.00	ALS Group USA, Corp.
34	Total Extended Price Section II			TOTAL		\$1,410.00	ALS Group USA, Corp.
SECTION III - LABORATORY ANALYSIS OF SOLID AND HAZARDOUS WASTE							
35	Laboratory Analysis of Solid and Hazardous waste	92685900051	18	EACH	\$22.00	\$396.00	ALS Group USA, Corp.
36	Total Extended Price Section III			TOTAL		\$396.00	ALS Group USA, Corp.

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AWARD

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE	AWARD
SECTION IV - WHOLE EFFLUENT TOXICITY (WET) TESTING							
37	Whole Effluent Toxicity (WET) Testing: Chronic	92685900052	4	EACH	\$2,536.00	\$10,144.00	Coastal Bioanalysts, Inc.
38	Whole Effluent Toxicity (WET) Testing: Acute	92685900053	4	EACH	\$696.00	\$2,784.00	Coastal Bioanalysts, Inc.
39	Total Extended Price Section IV			TOTAL		\$12,928.00	Coastal Bioanalysts, Inc.

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TITLE: Laboratory Analysis of Wastewater, Pharmaceutical

BID NUMBER: RFB-RC-2020-057

SPECIFICATIONS

1. SCOPE

- 1.1. This bid is for the furnishing of laboratory analysis of wastewaters, pharmaceutical & butanol wastewater samples for the Rockland County Sewer District # 1 (District) and the County of Rockland.

2. SAMPLE DESCRIPTIONS:

- 2.1. Currently RCSD#1 requires four (4) different types of analyses:

- SECTION I – LABORATORY ANALYSIS OF WASTEWATERS
- SECTION II – LABORATORY ANALYSIS OF PHARMACEUTICALS AND BUTANOL WASTEWATER SAMPLES
- SECTION III – LABORATORY ANALYSIS OF SOLID AND HAZARDOUS SAMPLES
- SECTION IV – WHOLE EFFLUENT TOXICITY (Wet) TESTING

- 2.2. The Category Specifications are defined in these specifications.

2.3. SAMPLE PICKUP REQUIREMENTS:

2.3.1. ALL SAMPLES IN SECTION I –

- 2.3.1.1. Rockland County Sewer District #1 will notify two (2) days prior to needed sample pickup. Pickup will be adjusted accordingly, if the holding time is short. **Pick up will be by courier physically picking up the samples or shipped by mailing service, e.g. UPS/FEDEX/USPS.** Pickup and delivery charges shall be included in the unit pricing provided on the proposal pages and will not be charged or paid as a separate item.

2.3.2. ALL SAMPLES IN SECTIONS II THROUGH IV –

- 2.3.2.1. Rockland County Sewer District #1 will notify laboratory two (2) days prior to needed sample pickup. Pickup will be adjusted accordingly, if the holding time is short. Pick up will be by courier physically picking up the samples. Samples may be picked up or shipped by mailing service, e.g. UPS/FEDEX/USPS. This is at the discretion of the bidder, however, Pickup and delivery charges shall be included in the unit pricing provided on the proposal pages and will not be charged or paid as a separate item.

3. REQUIREMENTS

- 3.1. The successful bidder will provide sample bottles, baggies for vials, labels and shipping coolers including shipping charges to and from Laboratory at no additional cost.
- 3.2. Contractors shall not be required to perform any field sampling. Samples will be provided by Rockland County Sewer District #1 personnel.

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- 3.3. Laboratories (Laboratory) and any subcontract laboratories to be used for this work must have N.Y.S. certification for wastewater analyses from the N.Y.S. Dept. of Health Environmental Laboratory Approval Program (ELAP) or certified under the National Environmental Laboratory Accreditation Conference (NELAC) Program approved by any NELAC accredited state laboratory certification program.
- 3.3.1. **Certifications shall be submitted with the bid proposal.**
- 3.3.2. **Test methods can be subcontracted out as long as the subcontractor follows the same criteria for testing and are certified by the ELAP program.**
- 3.3.3. **Bidder shall specifically identify any testing that will be subcontracted. Bidder shall submit, with their bid, a detailed listing of which test(s) will be subcontracted, disclose full name and address of the subcontractor and submit their certifications. Failure to properly identify subcontractors and provide subcontractor certification may deem your bid as non-responsive.**
- 3.4. All analyses must be done by methods indicated in Category Specifications section, or an equivalent method that is listed in the ELAP test methods (https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf), and by methods prescribed in the Federal Register (FR) (40 CFR-Part 136 and subsequent FR directives).
- 3.5. Except for Items #1 through #3 in Category Specifications, detection levels for wastewaters must be consistent with generally accepted instrument capabilities. Please refer to specifications for Items 1-3 in Section #1 for MDL limits.
- 3.6. Results must be made available to the District's Laboratory Director within **ten (10) business days**, after pickup or delivery of samples to the contract Laboratory. They can be in the form of e-mail, fax or made available through internet access, with hard copy reports to follow.
- 3.7. Reports and invoices must be sent to the District's Laboratory Director for review and approval.
- 3.8. If the final hard copy report containing the test results is not received by the District within **15 business days** after pickup or delivery date, there will be a penalty charge to the vendor, as follows:
- 3.8.1. Hard copy reports received 16 - 20 business days after pickup, vendor will only be paid 90% of cost of invoice.
- 3.8.2. Hard copy reports received after 20 business days after pickup, vendor will only be paid 70% of cost of invoice.
- 3.9. The Laboratory and subcontractors used for this work must have a documented quality assurance program in compliance with state and federal requirements. Operating procedures for test methods, instruments and laboratory procedures must be on file. Instrument calibration, method blanks, recoveries, duplicates, and internal standards, guidelines for the out-of-limits assays, and procedures for method validation, should all be routine quality control measures. Above methods and data must be available upon request.

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- 3.10. The costs of all QA/QC shall be borne by the Laboratory and included in the unit prices bid for the various parameters.
- 3.11. The Laboratory must be staffed by technically competent persons. Resumes of key technical staff must be submitted with proposal.
- 3.12. All analytical results will be reported to three (3) significant figures or those figures defining the accuracy of the analytical results. Results reported as “less than” (<) should only be used when the result is less than the method detection limit (MDL). The units for reporting all parameters should be consistent for each report.
- 3.13. All analytical reports shall include:
- 3.13.1. The District’s Project Name.
 - 3.13.2. A separate results report page for each sample ID number
 - 3.13.3. The date sample was analyzed and/or extracted.
 - 3.13.4. The analysis method used for each parameter (EPA 200.7, OIA 1677, etc.)
 - 3.13.5. Person/persons who analyzed and/or extracted the sample.
 - 3.13.6. Method detection limit for the parameter.
 - 3.13.7. Chain of custody.
 - 3.13.8. Quality Assurance and quality control (QA/QC) record for phenols, oil and grease (polar and non-polar), and organics analyses using GC or GC/MS instrumentation. QA/QC record includes: method blank, standards calibration, recovery data summary and QA/QC conformance summary.
 - 3.13.9. A matrix spike and matrix spike duplicate must be run for all Pharmaceutical Manufacturing Industry wastewater samples.
 - 3.13.10. Any additional QA/QC records upon request by the District’s Laboratory Director.
 - 3.13.11. A **Certification** statement, shown as follows:

CERTIFICATION

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

 Signature

 Date

 Name & Title (Print)

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- 3.14. The District's Laboratory Director may inspect the Laboratory facility of the bidder.
- 3.15. The cost for any QA/QC Proficiency Test Sample Analyses required of the District by any Regulatory Agency for the parameters analyzed by the contract Laboratory for the District shall be borne by the Laboratory and included in the unit prices bid for the various parameters. This sample may be assumed to include one annual sample from USEPA DMRQA Study for total phenols, total & available cyanides, trace metals (Cu, Pb, and Zn) and nutrients (ammonia, nitrite, nitrate, TKN, o-phosphate and total phosphate).
- 3.16. The successful bidder will provide sample bottles, baggies for vials, labels and shipping coolers including shipping charges to and from Laboratory at no additional cost.
- 3.17. The Laboratory will cooperate with the District to make sure that holding times are met on samples with a short holding time.
- 3.18. The bid is for a period of one (1) year, and will include all costs for one (1) year period with an option to renew for two (additional) one (1) year terms. Stated renewal periods may be extended by the Director of Purchasing for additional period(s) with the written concurrence of the Contractor.
- 3.19. The Laboratory must hold all subcontractor laboratories used for carrying out Rockland County Sewer District # 1 analyses to the category and general specifications to include all requirements set forth for the Primary Contract Laboratory.

4. EXPERIENCE

- 4.1. Bidder shall have a minimum of three (3) years experience providing laboratory analysis for the types of categories defined in these specifications.
- 4.2. Bidder shall provide, with their bid, references from at least three (3) firms or government agencies where laboratory analyses for these types of categories have been performed. Bidder may include the Rockland County Sewer District as a reference if the bidder is currently providing (or in the past has provided) services to the RCSD#1. Bidder shall provide proof of the minimum experience requirements stated above. The Certificate of Experience form shall be completed and submitted with the bid in accordance with these specifications. Failure to submit this form may deem your bid non-responsive.
- 4.3. Contractor shall document it has the equipment, materials and facility required to complete the work specified. The Vendor shall complete and submit with their bid the Certification of Equipment Form. This form shall be detailed to describe of the equipment, facility, and materials maintained by the vendor that will be utilized in the performance of this contract. The County reserves the right to visit the vendor's facility of operation to determine that the vendor has a sufficient facility, equipment and materials to complete the work specified.

5. QUANTITIES

- 5.1. The quantities are estimated and reflect anticipated requirements for a twelve-month period.
 - 5.1.1. The contract, however, shall be for the quantities actually ordered during the contract period.

6. PRICING

- 6.1. Bidders are required to submit unit pricing to provide all labor, equipment, material, pickup and delivery charges to perform laboratory analysis in accordance with the specifications and items listed on the proposal pages.

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7. AWARD

- 7.1. This bid shall be awarded as a group, by section, to the lowest responsible responsive bidder(s) meeting the stated requirements.
- 7.2. Bidders need not bid on all sections, however, bidders shall submit unit pricing for each item within a section. Bids omitting unit pricing for an item within a section shall be rejected.
- 7.3. The County of Rockland may, at its option, award single or multiple contracts to the contractor(s) submitting the lowest price for each section. In the case of a Bidder submitting a low price for two sections, a single contract will be awarded to that Bidder.

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TITLE: Laboratory Analysis of Wastewater, Pharmaceutical

BID NUMBER: RFB-RC-2020-057

CATEGORY SPECIFICATIONS

Test Method Codes: EPA, SM (Standard Methods)

SECTION 1 - ITEM # 1

Quarterly Plant sample, to be picked up in the months of March, June, September and December.

Approximate No. of samples per year: 6

Parameters, MDL and Analytical Methods to be measured are as follows:

Our SPDES permit levels required are as follows: Our max flow is 30 mgd therefore MDLs must be low enough that a MDL will not exceed the action level.

Copper, Total Action level 8.1 lbs/day
 Lead, Total Action level 0.5 lbs/day
 Zinc, Total Action level 15 lbs/ day
 Phenolics, Total Action level 4.0 lbs/day

Parameters	MDL	Method
Total Phenols, 4AAP	0.010 mg/L or less	EPA 420
Total Recoverable Copper	0.001 mg/L or less	any method on https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf
Total Recoverable Lead	0.001 mg/L or less	any method on https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf
Total Recoverable Zinc	0.002 mg/L or less	any method on https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf

SECTION 1 -ITEM # 2

Metals for De-ionized Water (DI) sample, to be picked up on approximately the first week in March.

Approximate No. of samples per year: 1

Testing is following the requirements of Standard Methods for the Examination of Water and Wastewater Section 9020B Table 9020 II

Parameters, MDL and Analytical Methods to be measured are as follows:

Parameters	MDL	Method
Cadmium	0.001 mg/L or less	any method on https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf
Chromium	0.001 mg/L or less	any method on https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf

Any alterations to this document made by the Offeror may be grounds for rejection of the proposal, cancellation of any subsequent award, or any legal remedies available to the County of Rockland.

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Copper 0.001 mg/L or less any method on
https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf
Lead 0.002 mg/L or less any method on
https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf
Nickel 0.001 mg/L or less any method on
https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf
Zinc 0.002 mg/L or less any method on
https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf

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SECTION 1 -ITEMS # 3 - # 28**Miscellaneous Wastewater Analyses****Miscellaneous Wastewater Analyses**

Please price each analytical item as stated below: Any test method that is approved under the ELAP manual https://www.wadsworth.org/sites/default/files/WebDoc/I180_2_59.pdf may be used.

ANALYSES**APPROX. NO. PER YEAR**

3.	Ammonia-N	365
4.	Nitrite-N	30
5.	Nitrate-N	30
6.	Total Kjeldahl Nitrogen as N	40
7.	Phosphate, Total as P	40
8.	Phosphate, Ortho as P	30
9.	Cyanide, Total	60
10.	Cyanide, Available	40
11.	Formaldehyde	10
12.	Total Phenols, 4AAP method	50
13.	Total organic carbon (TOC)	10
14.	Oil and Grease, Polar	50
15.	Oil and Grease, Non-polar (TPH)	40
16.	Chloride	12
17.	Sulfate	50
18.	Residue-filterable (TDS)	15
19.	Total Mercury, cold vapor method	50
20.	Total Metals, ICP method	500
21.	Total Metals, Graphite Furnace	10
22.	Volatile/Purgeable Organics	40
23.	Semi-volatile Organics	25
24.	Pesticides	20
25.	PCBs	25
26.	Sulfide	60
27.	Sulfur	60
28.	Methyl tert-butyl ether	12
29.	Low Mercury	42

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CATEGORY SPECIFICATIONS

SECTION II - ITEM #30

Acetone - Pharmaceutical Manufacturing Industry wastewater samples

Approximate No. of samples per year: 25

<u>Parameters</u>	<u>EPA Method</u>	<u>MDL, mg/L</u>
Acetone	524.2	0.005 or less
Chloroform	524.2	0.005 or less
Methylene Chloride	524.2	0.005 or less

SECTION II - ITEM #31

Acetates - Pharmaceutical Manufacturing Industry wastewater samples

Approximate No. of samples per year: 15

<u>Parameters</u>	<u>EPA Method</u>	<u>MDL, mg/L</u>
n-Amyl acetate	1666	0.010 or less
Ethyl acetate	1666	0.010 or less
Isopropyl acetate	1666	0.010 or less

SECTION II - ITEM #32

Butanol - Pharmaceutical Manufacturing Industry wastewater samples

Approximate No. of samples per year: 7

<u>Parameters</u>	<u>EPA Method</u>	<u>MDL, mg/L</u>
Butanol	1666	0.100 or less

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SECTION III -ITEM #34**Laboratory Analysis of Solid and Hazardous Waste**

Approximate No. of samples per year: 18

<u>Parameters</u>	<u>EPA Method</u>	<u>Units of Measurements</u>
Ammonia	SM 4500	mg/kg dry weight basis
Copper, Total	EPA 6010 C	mg/kg dry weight basis

SECTION IV -ITEM #36 & #37**Whole Effluent Toxicity (WET) Testing**

Approximate No. of samples per year: 4

Testing Requirements - WET testing shall consist of **Chronic (Item #36) and Acute (Item #37) Testing**. WET testing shall be performed in accordance with 40 CFR Part 136 and TOG~1.3.2 unless prior written approval has been obtained from the Department.

The test species shall be *Mysidopsis bahia* (mysid shrimp - invertebrate) and *Cyprinodon variegatus* (sheepshead minnow - vertebrate).

Artificial salt water should be used for dilution. All tests conducted should be static-renewal (two 24 hr. composite samples with one renewal for Acute tests and three 24 hr. composite samples with two renewals for Chronic tests). The appropriate dilution series bracketing the IWC and including one exposure group of 100% effluent- should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test is required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e, dilution ratio) is 7.2:1 for acute, and 16.4: 1 for chronic. The dilutions to be used for these tests shall be 6.2, 12.5, 25.0, 50.0 and 100%.

Time Period: Testing to begin in January and last for a period of one year. Therefore, one sample per one quarter of the calendar year will be required

Reporting: Toxicity Units shall be calculated and reported on the DMR as follows: $TU_a = (100)/(48 \text{ hr LC}_{50})$ or $(100)/(48 \text{ hr EC}_{50})$ (note that Acute data is generated by both Acute and Chronic testing) and $TU_c = (1 \text{ NOEC})/(\text{NO EC})$ when Chronic testing has been performed or $TU_c = (TU_a) \times (10)$ when only Acute testing has been performed and is used to predict Chronic test results, where the 48 hr LC₅₀ or 48 hr EC₅₀ and NOEC are expressed in effluent. This must be done for both species and using the Most Sensitive Endpoint (MSE) or the lowest NOEC and corresponding highest TU_c. Report a TU_a of 0.3 if there is no

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TITLE: Laboratory Analysis of Wastewater, Pharmaceutical

BID NUMBER: RFB-RC-2020-057

statistically significant toxicity in 100 effluent as compared to control.

The complete test report including all corresponding results, statistical analyses, reference toxicity data, daily average flow at the time of sampling and other appropriate supporting documentation; shall be submitted within 60 days following the end of each test period to the Toxicity Testing Unit. A summary page of the test results' for the invertebrate and vertebrate species indicating TUa, 48 hr LC50 or 48 hr ECSO for Acute tests and/or TUc, NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.
