August 1, 2022

TO: **PARCEL 15 (PORTAC) CLEANUP PHASE 1**

SUBJECT: RFP NO. 071579

ADDENDUM NUMBER # 01

This addendum is issued to add, remove, clarify, and amend the following:

1. Attachment A-Section 00 11 13 - Advertisement for Bids
2. Attachment B-Section 00 73 46 - Washington State Prevailing Wage Rates
3. Attachment C-Section 01 64 00 Owner-Furnished Products
4. Attachment D- Section 01 64 00 Owner-Furnished Products
5. Attachment E-Section 32 12 16 - Asphalt Paving
6. Attachment F-Special Approved Discharge Authorization

PARCEL 15 (PORTAC) CLEANUP PHASE 1

PROJECT NO. 101531.01 | CONTRACT NO. 071579

Scope of Work: The Work required for this Project includes:
Permeable Reactive Barrier (PRB): constructed by conventional excavation and biopolymer slurry methods, excavated soils will be transported off site for disposal at LRI, the PRB trench will be backfilled with a combination of sand and zero-valent iron mix, trench area will be patched with hot mix asphalt.

Stormwater Conveyance Improvements: the following work is for both 30 and 36 inch pipe alignments; removal of accumulated debris and solids in the pipe, trenchless pipe repair using cure-in-place-pipe (CIPP) methods, demolition existing spill containment vaults, installation of new manhole structures and owner provided stormwater vaults, installation of inline check valve tide gates and repairs to the rip rap outfall pads.

Bid Estimate: Estimated cost range is $1,950,000 to $2,380,000, plus Washington State Sales Tax (WSST).

In accordance with RCW 39.04.320, fifteen (15) percent apprenticeship participation is required for certain projects estimated to cost one million ($1,000,000) dollars or more. Bidders may contact the Department of Labor and Industries, Specialty Compliance Services Division, Apprenticeship Section, P.O. Box 44530, Olympia, WA 98504-4530, by phone (360) 902-5320, or e-mail at Apprentice@lni.wa.gov, to obtain information on available apprenticeship programs.

[1] Sealed Bid Date/ Time/Location: Bids will be received at the Front Reception Desk, Port Administration Office, One Sitcum Plaza, Tacoma, Washington 98421 until ~~**2:00 P.M.**~~**11:00 A.M. on August ~~2~~4, 2022**, at which time they will be publicly opened and read aloud and the apparent low bid will be determined.

Pre-Bid Conference and Site Tour: A pre-Bid conference and site visit have been set for July 19, 2022 at 10:00 A.M. The site visit will convene at the project site. The following Personal Protective Equipment is required for the site visit: sturdy shoes.

Attendees will be required to sign a Release and Acceptance of Responsibility and Acknowledgement of Risks Form prior to entering the site and shall provide their own Personal Protection Equipment (PPE) as required above.

Bid Security: Each Bid must be accompanied by a Bid security in an amount equal to five (5) percent of the Base Bid in a form allowed by the Instructions to Bidders.

Contact Information:	Any questions to the Port may be emailed to procurement@portoftacoma.com. No oral responses will be binding by the Port. Questions will not be accepted after seven (7) days prior to the Bid Date.
Bidding Documents:	Plans, Specifications, Addenda, and Plan Holders List for this Project are available on-line through The Port of Tacoma's Website portoftacoma.com. Click on "Contracts," "Procurement," and then the Procurement Number 071579. Bidders must subscribe to the Holder's List on the right hand side of the screen in order to receive automatic email notification of future addenda and to be placed on the Holder's List. Contact procurement@portoftacoma.com with questions. Holder' s Lists will be updated regularly. Additional Instructions available in Section 00 21 00 - Instructions to Bidders.
Public Works Training Requirements:	Effective July 1, 2019, all businesses are required to have training before bidding on public works projects and prevailing wage under RCW 39.04.359 and RCW 39.12, or is on the list of exempt businesses maintained by the Department of Labor and Industries. The bidder must designate a person or persons to be trained on these requirements. The training will be provided by the Department of Labor and Industries or by a training provider whose curriculum is approved by the Department of Labor and Industries. Please refer to Labor and Industries' web site (https://www.lni.wa.gov/TradesLicensing/PrevWage/Contractors/Training.asp?utm_medium=email&utm_source=govdelivery) for more information and training dates, requirements, and exemptions. Failure to attend this training could result in a determination of "not responsible" and the bidder not being awarded a public works contract.

END OF SECTION

PART 1 - GENERAL

1.01 PREVAILING AND OTHER REQUIRED WAGES

A. The Contractor shall pay (and shall ensure that all Subcontractors of any tier pay) all prevailing wages and other wages (such as Davis-Bacon Act wages) applicable to the Project.

B. Pursuant to RCW 39.12, "Prevailing Wages on Public Works," no worker, laborer, or mechanic employed in the performance of any part of the Work shall be paid less than the "prevailing rate of wage" in effect as of the date that bids are due.

[1]

1. Based on the Bid Date, the applicable effective date for prevailing wages for this Project is August ~~2~~**4**, 2022.

C. The State of Washington prevailing wage rates applicable for this public works Project, which is located in Pierce County, may be found at the following website address of the Department of Labor and Industries:

https://fortress.wa.gov/lni/wagelookup/prvWagelookup.aspx

D. The schedule of the prevailing wage rates is made a part of the Contract Documents by reference as though fully set forth herein, and a printed copy of the applicable prevailing wage rates are also available for viewing at the Port Administration Building, located at 1 Sitcum Plaza, Tacoma, WA 98421 (253-383-5841). Upon request to the Procurement Department at procurement@portoftacoma.com, the Port will email or mail a hard copy of the applicable Journey Level prevailing wages for this Project.

E. Questions relating to prevailing wage data should be addressed to the Industrial Statistician.

Mailing Address: Washington State Department of Labor and Industries
Prevailing Wage Office
P.O. Box 44540
Olympia, WA 98504

Telephone: (360) 902-5335

Facsimile: (360) 902-5300

1. If there is any discrepancy between the provided schedule of prevailing wage rates and the published rates applicable under WAC 296-127-011, the applicable published rates shall apply with no increase in the Contract Sum. It is the Contractor's responsibility to ensure that the correct prevailing wage rates are paid.

F. Statement to Pay Prevailing Wages

1. Prior to any payment being made by the Port under this Contract, the Contractor, and each Subcontractor of any tier, shall file a Statement of Intent to Pay Prevailing Wages with the Department of Labor and Industries for approval.

2. The statement shall include the hourly wage rate to be paid to each classification of workers entitled to prevailing wages, which shall not be less than the prevailing rate of wage, and the estimated number of workers in each classification employed on the Project by the Contractor or a Subcontractor of any tier, as well as the Contractor's contractor registration number and other information required by the Department of Labor and Industries.

3. The statement, and any supplemental statements, shall be filed in accordance with the requirements of the Department of Labor and Industries. No progress payment shall be made until the Port receives such certified statement.

G. The Contractor shall post, in a location readily visible to workers, at the Project site: (i) a copy of the Statement of Intent to Pay Prevailing Wages approved by the Industrial Statistician of the Department of Labor and Industries and (ii) the address and telephone number of the Industrial Statistician of the Department of Labor and Industries to whom a complaint or inquiry concerning prevailing wages may be directed.

H. If a State of Washington prevailing wage rate conflicts with another applicable wage rate (such as Davis-Bacon Act wage rate) for the same labor classification, the higher of the two shall govern.

I. Pursuant to RCW 39.12.060, if any dispute arises concerning the appropriate prevailing wage rate for work of a similar nature, and the dispute cannot be adjusted by the parties in interest, including labor and management representatives, the matter shall be referred for arbitration to the Director of the Department of Labor and Industries, and his or her decision shall be final and conclusive and binding on all parties involved in the dispute.

J. Immediately following the end of all Work completed under this Contract, the Contractor and each Subcontractor of any tier, shall file an approved Affidavit of Wages Paid with the Department of Labor and Industries.

K. The Contractor shall defend (at the Contractor's sole cost, with legal counsel approved by Port), indemnify, and hold the Port harmless from all liabilities, obligations, claims, demands, damages, disbursements, lawsuits, losses, fines, penalties, costs, and expenses, whether direct, indirect, including, but not limited to, attorneys' fees and consultants' fees and other costs and expenses, from any violation or alleged violation by the Contractor or any Subcontractor of any tier of RCW 39.12 ("Prevailing Wages on Public Works") or RCW Title 51 ("Industrial Insurance"), including, but not limited to, RCW 51.12.050.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

PART 1 - GENERAL

1.01 SCOPE

A. The purpose of this section is to provide the framework for transferring Port provided equipment and materials to the Contractor in a safe, timely and effective manner.

1.02 SUBMITTALS

A. Submit an inspection report or log to the Engineer of the inspection performed on the equipment and materials before acceptance by the Contractor. Flag any equipment or materials identified as being in unsatisfactory condition before moving or relocating it from the Location Area described below. Document unsatisfactory condition of equipment photographically, using digital media.

1.03 COORDINATION

[1] A. The materials will be available by ~~August 5, 2022~~ **November 15, 2022** .

1.04 LOCATION

A. The materials are located at 4215 SR509 N. Frontage Rd (Project Site) .

PART 2 - PRODUCTS

2.01 ITEMS

A. Assume all items are in satisfactory condition unless otherwise indicated. Report in writing to the Engineer equipment found to be in unsatisfactory condition.

No.	Description	Quantity	Manufacturer/Supplier
[1] 1	Storm Water Vault	2	~~TBD~~**Inland Northwest Precast**

PART 3 - EXECUTION

3.01 REMOVAL OF EQUIPMENT FROM STORAGE LOCATION

A. Protect, transport and install where indicated within the Contract Documents.

3.02 PROTECTION

A. Equipment

1. Tightly cover and protect equipment against dirt, moisture or impact, mechanical and chemical damage.
2. Repair
   a. Repair or replace Port provided property damaged by the Contractor.

3.03 RELOCATION

A. Install in accordance with the Contract Documents.

3.04 FIELD QUALITY CONTROL

A. Equipment Inspection

1. Examine each piece or component for visual defects.

END OF SECTION

PART 1 - GENERAL

1.01 SCOPE

A. The purpose of this section is to provide the framework for transferring Port provided equipment and materials to the Contractor in a safe, timely and effective manner.

1.02 SUBMITTALS

A. Submit an inspection report or log to the Engineer of the inspection performed on the equipment and materials before acceptance by the Contractor. Flag any equipment or materials identified as being in unsatisfactory condition before moving or relocating it from the Location Area described below. Document unsatisfactory condition of equipment photographically, using digital media.

1.03 COORDINATION

[1] A. The materials will be available by ~~August 5, 2022~~ **November 15, 2022** .

1.04 LOCATION

A. The materials are located at 4215 SR509 N. Frontage Rd (Project Site) .

PART 2 - PRODUCTS

2.01 ITEMS

A. Assume all items are in satisfactory condition unless otherwise indicated. Report in writing to the Engineer equipment found to be in unsatisfactory condition.

No.	Description	Quantity	Manufacturer/Supplier
[1] 1	Storm Water Vault	2	~~TBD~~**Inland Northwest Precast**

PART 3 - EXECUTION

3.01 REMOVAL OF EQUIPMENT FROM STORAGE LOCATION

A. Protect, transport and install where indicated within the Contract Documents.

3.02 PROTECTION

A. Equipment

1. Tightly cover and protect equipment against dirt, moisture or impact, mechanical and chemical damage.
2. Repair
   a. Repair or replace Port provided property damaged by the Contractor.

3.03 RELOCATION

A. Install in accordance with the Contract Documents.

3.04 FIELD QUALITY CONTROL

A. Equipment Inspection

1. Examine each piece or component for visual defects.

END OF SECTION

PART 1 - GENERAL

1.01 SCOPE

A. The work covered by this Section includes the furnishing of all labor, materials, equipment and necessary services to construct asphalt pavements to the sections and at the locations as specified in this Section and as indicated on the Contract Drawings.

1.02 REFERENCES

A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

B. Unless otherwise indicated, the most recent edition of the publication, including any revisions, shall be used.

C. American Association of State Highway and Transportation Officials (AASHTO)

1. AASHTO M 17 – Mineral Filler for Bituminous Paving Mixtures
2. AASHTO M 320 – Performance-Graded Asphalt Binder
3. AASHTO M 323 - Superpave Volumetric Mix Design
4. AASHTO T 11 - Materials Finer Than 75 □m (No. 200) Sieve in Mineral Aggregates by Washing
5. AASHTO T 27 - Sieve Analysis of Fine and Coarse Aggregates
6. AASHTO T 89 - Determining the Liquid Limit of Soils
7. AASHTO T 90 - Determining the Plastic Limit and Plasticity Index of Soils
8. AASHTO T 96 - Resistance to Degradation of Small-Size Coarse Aggregate and Impact in the Los Angeles Machine
9. AASHTO T 112 - Clay Lumps and Friable Particles in Aggregate
10. AASHTO T164 - Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)
11. AASHTO T168 – Sampling Hot Mix Asphalt Paving Mixtures
12. AASHTO T 176 - Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test
13. AASHTO T 304 - Uncompacted Void Content of Fine Aggregate
14. AASHTO T308 - Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method
15. AASHTO T 312 -) Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor
16. AASHTO T 329 – Moisture Content of Hot Mix Asphalt (HMA) by Oven Method
17. AASHTO T 335 - Determining the Percentage of Fracture in Coarse Aggregate

D. American Society for Testing and Materials (ASTM)

1. ASTM D75 – Sampling Aggregates
2. ASTM D2041 – Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures

3. ASTM D2726 – Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures
4. ASTM D4791 - Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate

E. Washington State Department of Transportation (WSDOT)

1. Construction Manual, M 41-01
2. Standard Specifications for Road, Bridge and Municipal Construction, M 41-10
3. Materials Manual, M 46-01

1.03 SUBMITTALS

1.04 A SEPARATE JOB MIX FORMULA FOR EACH PROPOSED MIX DESIGN SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR. SUBMITTALS SHALL REPRESENT ALL SUBMITTAL ELEMENTS SPECIFIED HEREIN AND SHALL INCLUDE AS A MINIMUM:

1. Mix designation/identification number and certificate of manufacturer’s rated production rate.
2. Plant where mix will be produced.
3. Performance Graded Binder Certified Test Reports
   a. Source location and type of binder.
   b. Certificate of Compliance, including date and signature of the supplier, regarding conformance with AASHTO M 320, Table 1.
   c. Elastic recovery requirements in accordance with WSDOT Section 9-02.1(4)
   d. Temperature-viscosity relationship of the asphalt cement
   e. Minimum mixing temperature (degrees F)
   f. Minimum compaction temperature (degrees F)
4. Coarse Aggregate Certified Test Reports:
   a. Source location and type of aggregate.
   b. Angularity.
   c. Bulk specific gravity.
   d. Flat and elongated particles.
   e. Soundness.
   f. LA Abrasion.
5. Fine Aggregate Certified Test Reports:
   a. Source location and type of aggregate.
   b. Bulk specific gravity.
   c. Percent natural sand (if used).
   d. Sand equivalent.
   e. Uncompacted void content.

6. Recycled Asphalt Pavement Test Reports (if used)
7. Anti-strep agent:
    a. Certification
    b. Amount used
8. Optimum Asphalt Determination (in accordance with ASTM D 5581 or ASTM D 6927, as appropriate).
    a. Compactive effort (75 or 112 blows applied to specimen, each face, as appropriate).
    b. Actual specific gravity and unit weight of each specimen.
    c. Percentage of asphalt in each specimen.
    d. Theoretical specific gravity of each specimen calculated.
9. Percentage and grade of performance graded asphalt binder
10. Proportions and percentage of each aggregate stockpile.
11. Temperature of mix when discharged from the mixer.
12. Compaction temperature
13. Plot of the blended aggregate gradation and gradation control points on the Federal Highway Administration (FHWA) 0.45 power gradation curve.
14. Maximum specific gravity at the target binder content.
15. Gyratory compaction curve for Nmax.
16. Bulk specific gravity at Ndesign gyrations.
17. Percent theoretical maximum density at Ninitial, Ndesign, and Nmax gyrations.
18. Voids in mineral aggregate at Ndesign gyrations.
19. Voids filled with asphalt at Ndesign gyrations.
20. Dust to binder ratio
21. Flow value
22. Stability
23. Actual unit weight of laboratory compacted mixture.
24. Graphical plots of air voids, voids in the mineral aggregate, voids filled with asphalt, fines to effective binder content ratio, and unit weight verses asphalt content. Plots shall indicate values at –0.5 percent design asphalt content, design asphalt content, and +0.5 percent design asphalt content.
25. Tensile strength ratio (TSR), strength of conditioned samples, and worksheets.

B. The certification(s) shall show the appropriate AASHTO/ASTM test(s) for each material, test results, and a statement that the material meets the specification requirement.

C. If requested by the Engineer, submit samples for each type of aggregate to be used and from each source with proper identification as to source, type of aggregate and contract number. Take all samples in accordance with requirements of ASTM D75 and D242. Submit in clean, sturdy bags and in the following amounts for each sample when requested:

MATERIAL	SAMPLE SIZE
Coarse Aggregate	25 lbs
Fine Aggregate	25 lbs
Mineral Filler	5 lbs

D. The job mix formula for each mixture shall be in effect until modified in writing by the Engineer. Should a change in mix or sources of materials be made, a new job mix formula must be tested and resubmitted for approved by the Engineer before the new mix is used.

E. Submit smoothness measurements and surface grade survey results to the Engineer prior to application for payment.

F. Equipment List: The Contractor shall submit a list of equipment to be used for placing asphalt concrete to the Engineer prior to utilization on the job.

G. Moisture content of asphalt.

H. Flangeway detail: Shop drawing detailing method of providing flange way block out in asphalt placed around the rail. Plan to be approved by the Engineer before paving around rail begins.

1.05 CONTRACTOR QUALITY CONTROL

A. The Contractor shall be responsible for developing the asphalt mix designs specified herein. The mix designs shall be developed and/or certified by a laboratory accredited by AASHTO under the AASHTO resource program. Mixtures on WSDOT’s QPL are considered to be certified.

B. Quality Control Testing: The Contractor shall conduct any and all quality control (QC) testing that he deems necessary to properly control the quality, consistency, and uniformity of the asphalt concrete mix being produced. No minimum number of quality control tests is required for this Contract.

C. For all Quality Control testing performed by Contractor, information and data determined through that testing shall be made available for inspection by Engineer upon request. In no case, however, will Contractor's Quality Control test data be used by Engineer for acceptance or payment purposes.

D. If the Contractor chooses to conduct quality control tests, the information and data determined through that testing shall be made available for inspection by the Engineer. In no case, however, shall the Contractor’s quality control test data be used by the Engineer for acceptance or payment purposes.

E. Surface Grades: Grades shall conform to the tolerance requirements specified herein, except where closer tolerance is required for the proper functioning of appurtenant structures and drainage as determined by the Engineer.

1.06 QUALITY ASSURANCE

A. The Engineer will provide inspection services. Sampling and testing for compliance shall be in accordance with the applicable reference standards using certified technicians and accredited independent testing laboratories.

B. Sampling and testing for compliance with the Contract provisions shall be in accordance with Section 01 45 00 - Quality Control.

C. The Contractor may obtain copies of results of tests performed by the Engineer, at no cost. Tests conducted for the sole benefit of the Contractor, shall be at the Contractor's expense.

D. Unless otherwise referenced or modified herein, quality control and quality standards for this section shall be as specified in the WSDOT Standard Specifications.

1.07 JOB CONDITIONS

A. Environmental Requirements:

1. Do not place asphalt beginning October 1st through March 31st of the following year, without written concurrence from the Engineer.

2. In case of sudden rain, the Engineer may permit placing of mixture then in transport from the plant provided that the surface upon which the mix is dry. In addition, the laydown temperatures must conform to the above requirements. Such permission, however, shall not be interpreted as a waiver of any of the quality requirements.

B. New and existing manholes, catch basins, and utility vault covers shall be adjusted to conform to the new pavement grades. All lids, vaults, frames, grates, and other appurtenances shall be set to final grade and accepted by the Engineer paving. Paving shall be finished 1/4-inch to 1/2-inch higher than adjacent structures, unless otherwise shown or specified.

C. Existing Underground Utilities: The Contractor shall locate existing underground utilities in the area of the work. Those utilities which are to remain shall be adequately protected from damage.

D. All permanent utilities shall be installed prior to final paving. All utility trenches shall be patched with asphalt pavement as shown on the Drawings.

E. Dust Control: The Contractor shall be responsible for dust control at the site. As a minimum, a water truck and vacuum truck shall be used on site for dust control when required by the Engineer.

PART 2 – PRODUCTS

2.01 PERFORMANCE GRADED ASPHALT BINDER (PGAB)

A. Asphalt shall conform to the requirements of AASHTO M 320 and the elastic recovery requirements of WSDOT Standard Specification Section 9-02.1(4) for the Performance Grade specified herein.

2.02 AGGREGATE

A. Coarse Aggregate – Coarse aggregate shall conform to WSDOT Standard Specification Sections 9-03.8(1), 9-03.8(2), 9-03.8(3), and 9-03.8(6), and AASHTO M 323, as modified below:

Test	Specification
Flat and Elongated Particles (ASTM D 4791, using a ratio of 5:1, maximum to minimum dimension)	8%, maximum
Coarse Aggregate Angularity (AASHTO T 335)	95% with 2 or more fractured faces, 100% with 1 or more fractured faces
LA Abrasion Wear (AASHTO T 96, 500 revolutions)	40% Maximum

B. Fine Aggregate - Fine aggregate shall consist of clean, sound, durable, angular shaped particles produced by crushing stone or gravel that meets the requirements for wear and soundness specified for coarse aggregate. Natural (non-manufactured) siliceous sand may be used to obtain the gradation of the aggregate blend or to improve the workability of the mix. The

amount of sand to be added will be adjusted to produce mixtures conforming to requirements of this Specification. The aggregate particles shall be free from coatings of clay, silt, or other objectionable matter and shall contain no clay balls. Fine aggregate shall conform to WSDOT Standard Specification Sections 9-03.8(1), 9-03.8(2), 9-03.8(3), and 9-03.8(6), and AASHTO M 323, as modified below:

Test	Specification
Sand Equivalent (AASHTO T 176)	45%, minimum
Uncompacted Void Content (AASHTO T 304, Method A)	45%, minimum
Deleterious Materials (AASHTO T 112)	2%, maximum

C. Mineral filler, when used, shall conform to the requirements of AASHTO M 17.

D. Crushed slag aggregates shall not be used.

E. Recycled Asphalt Pavement (RAP)

1. RAP, if used, shall conform to the requirements of WSDOT Standard Specification Section 9-03.8(3)B, 9-03.21(1), and 9-03.21(1)A, as modified herein.

2. The maximum proportion of RAP permitted within each mix shall not exceed 20 percent measured by total weight of HMA.

3. RAP shall have 100 percent passing the 2-inch sieve, 95 percent passing the 1 inch sieve, and shall be a mixture of only coarse aggregate, fine aggregate, and asphalt cement, free of solvents and other contaminating materials.

4. When RAP is used in a mixture, the RAP aggregate shall be extracted from the RAP using a solvent extraction (AASHTO T164) or ignition oven (AASHTO T308). The RAP aggregate shall be included in determinations of gradation, coarse aggregate angularity, fine aggregate angularity, and flat-and-elongated requirements. The sand equivalent requirements shall be waived for the RAP aggregates but shall apply to the remainder of the aggregate blend.

5. Documentation of RAP stockpile quality and traceability shall be submitted to the Engineer for approval prior to use.

F. Aggregate Gradation

1. Each gradation contains maximum and minimum control points. Job mix formula gradations must fall within control points for the specified nominal aggregate size. The combined aggregate shall conform to the gradation requirements shown below when tested in accordance with AASHTO T11 and T27. Design gradation requirements are as follows:

Sieve Size	1/2-inch NMAS
(Percent Passing)	
1-1/2”	-
1”	-
3/4”	100
1/2”	90-100
3/8”	75-90
No. 4	46-66
No. 8	33-45
No. 30	13-29

No. 200	3.0-7.0

2. Aggregates shall be provided in sufficient sizes to produce a uniform mixture. The Contractor shall indicate on the proposed job-mix formula the separate size designations of aggregate to be used.
3. It is recommended that the Bailey Method of gradation evaluation be used to evaluate the packing of aggregate particles and constructability of the blended aggregate mix. If segregation or non-uniformity is evident in the finished pavement, the Engineer reserves the right to require the Contractor to discontinue the use of crusher run or aggregate blends and to furnish separate sizes of open graded aggregate material.
4. Blended Aggregates:
   a. Fine aggregates and coarse aggregates when blended shall not contain more than 2 percent by mass, clay and other friable particles as determined by AASHTO T 112.
   b. Each gradation contains maximum and minimum control points. Job mix formula gradations must fall within control points for the specified mix. The combined aggregate shall conform to the gradation requirements shown here when tested in accordance with AASHTO C117 and C136.

2.03 HOT MIX ASPHALT (HMA) MIX DESIGN

A. Mix design shall be prepared by the Contractor in accordance with WSDOT SOP 732 as modified herein.

B. Asphalt Binder: PG 70-22.

C. Aggregate Gradation: 1/2-inch

D. Gyration levels for mix preparation shall conform to the following:

Mix Designation	Ninnitial	Ndesign	Nmax
1/2 inch	7	75	115

E. The target air voids (Va) of the mix design at the design number of gyrations shall be as follows:

Mix Designation	Air Voids (Percent)
1/2 inch	4.0

F. The voids filled with asphalt (VFA) at the target air void level shall be as follows:

Mix Designation	Voids Filled with Asphalt (Percent)
1/2 inch	65-75

G. The voids in mineral aggregate (VMA) of the HMA design shall be as follows:

Mix Designation	Voids Filled with Mineral Aggregate (Percent) Minimum1
1/2 inch	14.0

*Note: VMA is not allowed to drop below minimum in production.

H. The HMA design when compacted in accordance with AASHTO T 312, shall meet the density specified below at the initial, design, and maximum compaction levels.

Compaction Level (Number of Gyrations)	Required Density (% of Theoretical Maximum Specific Gravity)
Nini	%Gmm =< 89
Ndes	%Gmm =< 96

Nmax	%Gmm =< 98

I. The dust to binder ratio (by weight ratio between the minus 200 sieve material and effective asphalt content) of the blended mix shall be between 0.6 and 1.4 for 1/2-inch mix.

J. Compacted mix design shall have a tensile strength ratio (TSR) greater than or equal to 85 percent when tested in accordance with WSDOT Test Method T718, including the optional freeze-thaw cycle. In addition, the mixture shall have a minimum wet tensile strength of 80 pounds per square inch (psi) and a maximum dry tensile strength of 175 psi. In the event the mix design does not meet the tensile strength requirements the Contractor shall increase the approved anti-stripping agent dosage or take other corrective action to satisfy the specification.

2.04 HEAT-STABLE ANTI-STRIPPING ADDITIVE

A. Mix designs shall include a minimum of 0.1 percent by weight of binder, anti- stripping additive conforming to the requirements of WSDOT Standard Specification Section 9-02.4.

2.05 TACKCOAT

A. Unless otherwise approved by the Engineer, the tack coat shall be CSS-1, CSS-1h, or STE-1 emulsified asphalt conforming to WSDOT Standard Specification Section 9-02.1(6). The CSS-1 and CSS-1h emulsified asphalt may be diluted with water at a rate not to exceed one part water to one part emulsified asphalt. The tack coat shall not exceed the maximum temperature recommended by the emulsified asphalt manufacturer.

2.06 JOINT AND CRACK SEALANT

A. Sealant material shall conform to the requirements of WSDOT Standard Specification Section 9-04.2(1)A2.

PART 3 – EXECUTION

3.01 CONSTRUCTION METHODS

A. Asphalt Mixing Plant – Asphalt shall be produced at a plant approved by the WSDOT. Plants shall conform to WSDOT Standard Specifications Section 5-04.3(3)A.

B. Hauling Equipment:

1. Hauling equipment shall conform to WSDOT Standard Specifications Section 5-04.3(3)B, as modified herein.

2. Trucks shall be equipped with tarps, in good condition without holes, which can be tied down over the sides and ends of the truck beds during periods of inclement weather to prevent rain from entering the truck bed and coming in contact with the asphalt concrete mix.

3. Trucks shall be loaded using a multiple-drop method (front then back the middle) to minimize truck to truck segregation.

C. Paving Equipment – Asphalt pavers shall conform to WSDOT Standard Specifications Section 5-04.3(3)C.

[1] D. Materials Transfer Vehicle – The Contractor ~~shall~~ **may** use a Materials Transfer Vehicle (MTV) to deliver the HMA from the hauling equipment to the paving equipment for any lift in or partially in the top 0.3 feet of the pavement section. MTVs shall conform to WSDOT Standard Specifications Section 5-04.3(3)D.

E. Compaction Equipment – Operate rollers in accordanace with the manufacturer’s recommendations. Do not use rollers that crush aggregate, produce pickup or washboard,

unevenly compact surface, displace the mix, or produce other undesireable results.

F. Preparation of the Asphalt Binder Material (asphalt cement):

1. The binder shall be stored within the temperature range specified by the supplier of the binder for the grade of asphalt cement being used. Different grades of asphalt binder shall be stored separately and not mixed together at any time.

2. The binder shall be heated in a manner that will avoid local overheating and provide a continuous supply of the bituminous material to the mixer at a uniform temperature.

3. The temperature of the binder delivered to the mixer shall be sufficient to provide a suitable viscosity for adequate coating of the aggregate particles, but shall not exceed 350 degrees F unless otherwise required by the asphalt binder manufacturer.

G. Preparation of the Aggregates:

1. The aggregate for the mixture shall be heated and dried prior to introduction into the mixer. Aggregate shall be dry with no moisture content prior to introduction into the mixer. The maximum temperature and rate of heating shall be such that no damage occurs to the aggregates.

2. The aggregate temperature shall not be lower than is required to obtain complete coating and uniform distribution of the aggregate particles and to provide a mixture of satisfactory workability.

H. Preparation of Bituminous Mixture:

1. Asphalt plant shall not exceed production rate certified by manufacturer.

2. Mixing shall conform to WSDOT Standard Specifications Section 5-04.3(6), as modified herein.

3. The aggregates and the bituminous material shall be properly proportioned and introduced into the mixer in the amount specified by the job mix formula.

4. Job mix formula production tolerances shall conform to WSDOT Standard Specifications Section 9-03.8(7), except the tolerance limits for aggregate shall not exceed the limits of the control points specified herein.

5. The moisture content of all bituminous mix upon discharge shall not exceed one (1) percent. Asphalt sampling shall be performed in accordance with AASHTO T 168 and moisture content testing shall be performed in accordance with AASHTO T 329. Results of the moisture content testing shall be submitted to the Engineer.

I. Preparation of the Underlying Surface:

1. Preparation shall conform to WSDOT Standard Specifications Sections 5-04.3(4), and, 5-04.3(4)C as modified herein.

2. Asphalt materials shall not be placed until the underlying course has been tested and accepted by the Engineer.

3. The underlying surface shall be free of water, foreign material, and dust when the hot mix asphalt mixture is applied. Immediately before placing asphalt materials, clean all underlying surfaces and previous courses of all loose and foreign material by sweeping with hand brooms, power sweepers or blowers as directed by the Engineer.

4. Tack Coat:

a. Tack coat shall be applied in accordance with WSDOT Standard Specifications Section 5-04.3(4), as modified herein. The Engineer shall verify that the tack coat has been properly placed prior to constructing subsequent pavement lifts. Refer to the applicable sections in Chapter 5 of the WSDOT Construction Manual for guidance on tack coat application and inspection.

b. Apply tack coat only when the underlying surface is free of water, foreign material, dust, and the ambient temperature meets the requirements for the pavement course being placed.

c. Residual asphalt coating shall be 0.03 to 0.05 gallons per square yard on newly placed asphalt surfaces

d. Residual asphalt coating shall be 0.06 to 0.08 gallons per square yard on existing or milled asphalt surfaces.

e. Residual asphalt coating shall be 0.06 to 0.08 gallons per square yard on compacted subgrade.

f. Tack coat shall be applied to all vertical surfaces of existing pavement, curbs, gutters, utility structures, concrete edge of the wharf, and construction joints in the asphalt against which additional material is to be placed.

g. Exposed surfaces of utility vault lids, frames, grates, valve boxes, inlets and other appurtenances within the area to be paved shall be protected from tack coating.

5. Manholes, and lids, and other appurtenances within the area to be paved shall be adjusted to final grade as shown on the Contract Drawings, shall be in place during paving operations, and shall not be paved over as part of the paving operation. Permanent curbs, gutters, and other supports shall be constructed and backfilled prior to placing asphalt. All contact surfaces shall be coated with tack coat.

J. Transporting, Placing, and Finishing:

1. The asphalt concrete mixture shall be transported from the mixing plant to the site in vehicles conforming to the requirements specified herein.

2. Hauling over freshly placed material shall be not permitted until the material has been compacted, as specified, and allowed to cool to atmospheric temperature.

3. Placing and finishing of the asphalt mixture shall be in accordance with WSDOT Standard Specifications Section 5-04.3(7), as modified herein.

4. The nominal compacted depth of any layer of any course shall not exceed five (5) times the nominal maximum aggregate size of the asphalt mix.

5. The hot mix asphalt mixture shall not be placed during unsuitable weather or when the surface temperature of the underlying course is less than that specified below. Asphalt shall not be placed unless the atmospheric temperature is at least 50 degrees F and rising. The temperature requirements may be waived by the Engineer, if requested; however, all other requirements including compaction shall be met.

Lift Thickness, T (inches)	Minimum Base Temperature (degrees F)
T>3	40
2	45
T<2	55

6. The initial placement of the asphalt concrete mixture shall occur at a temperature suitable for obtaining density, surface smoothness, and other specified requirements but not less than 250 degrees F, unless approved by the Engineer.
7. Upon arrival, the mixture shall be placed to the full width of the paving lane. It shall be struck off in a uniform layer of such depth that, when the mix is properly compacted, shall have the required thickness and conform to the grade and contour indicated. The speed of the paver shall be regulated to eliminate pulling and tearing of the bituminous mat. Unless otherwise permitted, placement of the mixtures shall begin along the centerline of a crowned section or on the high side or areas with a one-way slope. The mixture shall be placed in consecutive adjacent strips having a minimum width of 10-feet except where edge lanes require less width to complete the area.
    a. For density determination, each day's production will be treated as a lot. A minimum of ten sublots will be tested each day; 15 if production tonnage is expected to exceed 600 tons for that day. In no case shall the sublot size for density determination exceed 40 tons. Random test locations will be determined according to WSDOT Test Method T 716.
    b. In-place density shall be a minimum of 93% of the reference theoretical maximum density as determined by WSDOT FOP for WAQTC TM 8. Evidence of gauge calibration to cores, required in the test method, shall be provided for the approved job-mix being placed at a similar thickness or the gauge will be calibrated as described in the test method.
    c. Determine reference theoretical maximum density as the moving average of the most recent five determinations for the lot of asphalt concrete being placed according to WSDOT Materials Manual Standard Operating Procedure 729.
    d. Engineer may evaluate cyclic density as described in WSDOT Standard Specifications Section 5-04.3(10)B2 to assess segregation.
8. Joints:
    a. The longitudinal joint in one course shall offset the longitudinal joint in the course immediately below by at least 6-inches; however, the joint in the surface course shall be at the centerline of the pavement if that pavement is to be used by normal car or truck traffic.
    b. Longitudinal joint density shall be assessed once per sublot in accordance with WSDOT SOP 735. Low density is defined as less than 91 percent of reference maximum density. When placing a single paver width patch, consecutive density tests will be taken on alternating sides of the patch.
    c. Transverse joints in one course shall be offset by at least 10-feet longitudinally from transverse joints in the previous course. Transverse joints in adjacent lanes shall be offset a minimum of 10-feet.
9. On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the mixture may be spread and raked by hand tools.
10. Formation of all joints shall be made to ensure a continuous bond between courses and obtain required density. Joints shall have same texture as other sections of course and meet requirements for smoothness and grade.

11. Roller shall not pass over unprotected transverse end of freshly laid mixture except when necessary to form a temporary stop. After a temporary stop, and prior to continuation of paving, the tapered edge shall be cut back to its full depth and width on a straight line, to expose a vertical face, before placing the adjacent lane.
12. Longitudinal joints which are irregular, damaged, uncompacted, or otherwise defective shall be cut back to expose a clean, vertical, sound, surface for the full depth of the course. Apply tack coat on all newly exposed contact surfaces before placing any fresh mixture against the joint.

3.02 COMPACTION OF MIXTURE

A. After placing, the mixture shall be thoroughly and uniformly compacted by rolling. Surface shall be compacted as soon as possible when the mixture has attained sufficient stability so that the rolling does not cause undue displacement, cracking or shoving. Sequence of rolling operations and the type of rollers shall be at the discretion of the Contractor.

B. Compaction shall be completed before the mixture cools below 175 degrees F, unless otherwise approved by the Engineer. Temperature shall be determined using an infrared thermometer by the Engineer.

C. The speed of the roller shall, at all times, be sufficiently slow to avoid displacement of the hot mixture and be effective in compaction. Any displacement occurring as a result of reversing the direction of the roller, or from any other cause, shall be corrected at once.

D. In areas not accessible to the roller, the mixture shall be thoroughly compacted with mechanical tampers.

E. Any mixture that becomes loose and broken, mixed with dirt, contains check- cracking, or in any way defective shall be removed and replaced with fresh hot mixture and immediately compacted to conform to the surrounding area. This work shall be done at Contractor's expense. Skin patching will not be allowed.

F. Compaction of the asphalt mixture shall be in accordance with WSDOT Standard Specifications Section 5-04.3(10), as modified herein.

1. For density determination, each day’s production will be treated as a lot. A minimum of ten sublots will be tested each day; 15 if production tonnage is expected to exceed 600 tons for that day. In no case shall the sublot size for density determination exceed 40 tons. Random test locations will be determined according to WSDOT Test Method T 716.
2. In-place density shall be a minimum of 93% of the reference theoretical maximum density as determined by WSDOT FOP for AASHTO T209. A minimum of two cores per day/lot will be taken by the Contracting Agency or their representative to confirm gauge calibration. At the Contracting Agencies discretion, cores can be used as the sole means of density acceptance with a testing frequency meeting the of Section F(1).
3. Determine reference theoretical maximum density as the moving average of the most recent five determinations for the lot of asphalt concrete being placed according to WSDOT Materials Manual Standard Operating Procedure 729.
4. Engineer may evaluate cyclic density as described in WSDOT Standard Specifications Section 5-04.3(10)B to assess segregation.

3.03 JOINT SEALANT

A. Apply joint sealant to the edges of new paving joints, catch basins, manholes, at the meet lines to concrete structures and as directed by the Engineer.

3.04 SURFACE SMOOTHNESS

A. The completed surface of the wearing course shall conform to the smoothness tolerance requirements of WSDOT Standard Specifications Section 5-04.3(13).

3.05 FIELD QUALITY CONTROL

A. Contractor shall backfill core holes with quickset concrete with a minimum compressive strength of 3,000 psi.

B. Surface Grades: Grades shall conform to tolerance requirements specified herein, except where a closer tolerance is required for the proper functioning of appurtenant structures and drainage as determined by Engineer.

C. After the curing, Contractor shall perform a flood test to check if there are any local depressions on the pavement. All asphalt pavement work where water ponds and does not run off within a reasonable amount of time, as determined by the Engineer, shall be fixed to provide proper drainage. Test shall be performed in the Engineer's presence.

D. Quality Assurance Testing By Engineer:

1. Contractor shall arrange for Engineer to have access to the mixing plant for verification of weights or proportions, character of materials used and determination of temperatures used in the preparation of asphalt concrete mix.

2. Contractor shall provide reasonably safe and convenient access, acceptable to Engineer, for inspection and sampling of the AC, and shall cooperate in the inspection and sampling process when requested to do so.

3.06 ADJUSTING AND CLEANING

A. The Contractor shall adjust manholes, utility vaults and boxes, and valve boxes to final grades.

B. At the conclusion of the work and before final payment is made, Contractor shall remove all debris of every kind from the premises and leave the area broom clean.

3.07 PROTECTION

A. After final rolling, the Contractor shall not permit vehicular traffic on pavement for a minimum of 24 hours until it has cooled and hardened.

B. The Contractor shall erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

END OF SECTION

[1]

APPENDIX G

SPECIAL APPROVED DISCHARGE AUTHORIZATION #22-007

City of Tacoma
Environmental Services Department

Environmental Compliance: (253) 502-2222
Operations: (253) 591-5595
Email: sad@cityoftacoma.org

SPECIAL APPROVED DISCHARGE AUTHORIZATION
TO THE CITY OF TACOMA'S SANITARY SEWER SYSTEM
Tacoma Municipal Code, Chapter 12.08B.250 and 12.08C.360

The Special Approved Discharge (SAD) Authorization is issued solely to the Authorized Discharger named in the Authorization and is subject to the conditions set forth in this authorization for discharge to the City of Tacoma's Sanitary Sewer System.

I. GENERAL INFORMATION

SAD # 22-007	Effective Date: May 19, 2022	Expiration Date: May 18 2023
Authorized Discharger: Port of Tacoma		
Company Representative: Anita Fichthorn		
Address of Company: P.O Box 1837		
City: Tacoma	State: WA	Zip: 98401
Phone #: 253-830-5379	Email: afichthorn@nwseaportalliance.com	
Name of Property Owner: Port of Tacoma		
Address of Property Owner: Same as above		
City:	State:	Zip:
Phone #:	Email:	

II. PROJECT INFORMATION

Project Name: Parcel 15 (Portac) Clean-up Phase I

Discharge Type: Contaminated contact stormwater and groundwater.

Flow rate (Gallons Per Minute): 75

Discharge Location: Private line that discharges into MH 6772702

Address of Discharge Location: 4215 SR 509

Project Narrative: The Port of Tacoma (Authorized Discharger) is doing a soil remediation at an old log yard site containing contaminated soil. Contaminated groundwater and or stormwater may be encountered during the project. This authorization allows the discharge of contaminated water to the City of Tacoma's Municipal sanitary sewer following Control Authorities approval. This is a for Fee Authorization.

III. AUTHORIZATION GENERAL CONDITIONS

1. Duty to Comply
The Authorized Discharger shall comply with TMC 12.08B and 12.08C, Authorization Terms and Conditions, and the Special Approved Discharge Authorization Policy.

2. Dilution Prohibition
The Authorized Discharger shall not, in any way, dilute a discharge as a substitute to achieve compliance with the Special Approved Discharge Authorization.

3. Calibration and Maintenance of Equipment
The Authorized Discharger shall provide, calibrate, inspect, and maintain all flow measuring, discharge, sampling, monitoring, and pretreatment equipment accurately and reliably.

Authorized Dischargers shall not interfere with to cause damage or make unauthorized alterations to any monitoring or pretreatment equipment.

Records of maintenance and calibration shall be maintained.

4. Flow Measurement
The Authorized Discharger shall use approved flow measurement devices and methods and meter all discharge flows, unless other authorization has been granted by the Control Authority.

The Authorized Discharger shall control and monitor the flow of water in the upstream and downstream system to ensure that the capacity of the City of Tacoma's Municipal Sewer System is not exceeded as a result of the additional flow caused by the discharge.

The Authorized Discharger may be required to reduce the flow rate of the discharge, or cease discharging during heavy rain events which may overburden the sanitary sewer system.

5. Discharge Parameters
The Authorized Discharger shall meet prescribed discharge parameters as outlined in section IV of the Special Approved Discharge Authorization in order to discharge to the City of Tacoma's Municipal Sewer System.

6. Discharge Contingencies
The Authorized Discharger shall cease discharge when a violation of the Special Approved Discharge Authorization General Conditions is suspected or detected; or when directed by the City of Tacoma.

The Authorized Discharger shall observe and monitor the discharge for unusual color, odor, and/or sheen. If any of these conditions are observed, the discharge shall be ceased and the Control Authority shall be notified.

7. Access
The Authorized Discharger shall provide access at reasonable times to the Control Authority for the purposes of inspection to evaluate compliance with the Special Approved Discharge Authorization.

8. Authorization Duration
Special Approved Discharge Authorizations shall be issued for no longer than one (1) year. Conditions of the Authorization may be subject to change by the Director at any time during the life of the Authorization.

9. Project Completion Notification
The Authorized Discharger shall submit notification in writing to the Control Authority upon completion of the project.

10. Authorization Transfer
A Special Approved Discharge Authorization may not be transferred, reassigned, or sold.

11. Severability
If any provision of the Special Approved Discharge Authorization, TMC 12.08B and 12.08C, or the application thereof to any person or circumstance is held invalid, the remainder of the Special Approved Discharge Authorization or TMC 12.08B and 12.08C, or the application of such provision to other persons or circumstances, shall not be affected thereby.

12. Property Rights
The issuance of the Special Approved Discharge Authorization does not convey to the Authorized Discharger any property rights, either real or personal or convey any exclusive privileges. Nor does such issuance authorize any injury to private property, any invasion of personal rights, or any violation of federal, state or local laws.

13. Authorization Termination
The Director may terminate the Special Approved Discharge Authorization for violation of the Authorization's terms and conditions or for violation of TMC, Chapter 12.08B and 12.08C provisions.

IV. DISCHARGE PARAMETERS

Parameter	Discharge Limit		Approved Analytical Method	
			EPA	Standard
Mercury	0.033	mg/L	245.1; 245.2	
Molybdenum	0.55	mg/L	200.7, 200.8	
Nickel	1.12	mg/L	200.7, 200.8	
pH	5.0-11.0	Units		4500HB-2000
Selenium	0.14	mg/L	200.7, 200.8	
Silver	0.64	mg/L	200.7, 200.8	
Temperature	100	ºF		
Zinc	2.44	mg/L	200.7, 200.8	
BTEX	0.750	mg/L	624	
Flow	80	gpm		
TTO - SVOA,VOA	2.13	mg/L	624/625	
SGT-HEM	50	mg/L	1664A; 1664B (measured as silica gel treated, hexane extractable materials (SGT-HEM)	
Arsenic	0.23	mg/L	200.7, 200.8	
Benzene	0.050	mg/L	624	
Cadmium	0.103	mg/L	200.7, 200.8	
Chromium	4.74	mg/L	200.7, 200.8	
Copper	1.46	mg/L	200.7, 200.8	
Lead	0.427	mg/L	200.7, 200.8	
TSS	225	mg/L		2540D-1997

V. DISCHARGE REQUEST

Discharging to the municipal sewer system without prior permission from the Control Authority is prohibited.

Batch Dischargers
For discharges that occur by batch, the Authorized Discharger shall submit a Batch Discharge Request form. A copy of the analytical results from a certified laboratory and a chain of custody shall be attached and emailed to: SAD@cityoftacoma.org. Once reviewed, the Control Authority will return the approved email and the Authorized Discharger may commence the discharge between the hours of 7:30 a.m. and 5:00 p.m.

Continuous Dischargers
For discharges that occur on a continuous basis, the Authorized Discharger shall submit a copy of analytical data results from a certified laboratory and chain of custody to email: SAD@cityoftacoma.org. Once reviewed, the Control Authority will return the approved email and the Authorized Discharger may commence the discharge.

VI. DISCHARGE RECORDS

The Authorized Discharger shall submit discharge records for the previous month, including no discharge notification to the Control Authority by the 15th of each month.

1. The Authorized Discharger shall notify the Control Authority within twenty-four (24) hours of any changes to the site contact.
2. The Authorized Discharger shall notify the Control Authority within twenty-four (24) hours of any significant change to the quality or volume of the discharge or changes that affect the potential for slug load to the Municipal Sewer System.
3. The Authorized Discharger shall submit a formal written notification to the Control Authority within five (5) days of the occurrence describing the following:

    a. What was discharged
    b. Volume of the discharge
    c. Circumstances of the discharge
    d. Duration of the discharge including beginning and end times and dates
    e. Corrective actions to prevent reoccurrence

4. The Authorized Discharger shall notify the Control Authority within twenty-four (24) hours of becoming aware of any of the following violations:

    a. Discharges prohibited by Tacoma Municipal Code, Chapter 12.08B and 12.08C, except where authorized by the Special Approved Discharge Authorization
    b. Exceedance of wastewater discharge limits as established in the Special Approved Discharge Authorization
    c. Failure to perform any Best Management Practices included in the Special Approved Discharge Authorization
    d. Bypass of any part of a required pretreatment system.

5. The Authorized Discharger shall submit a formal written report to the Control Authority within five (5) days after becoming aware of the violation. The report shall include the following information:

    a. Description of the violation, including the cause, date and time of the violation
    b. Date and time the discharge was stopped
    c. Measures taken to correct the violation
    d. Measures taken to prevent future violations

BILLING INFORMATION

The Authorized Discharger must pay the applicable fees and maintain payments as provided in Tacoma Municipal Code, Chapter 12.08B.250. The Authorized Discharger, from which material in violation of Chapter 12.08C is discharged into the City of Tacoma's Municipal Sewer System shall be liable to pay any supplemental charges the City of Tacoma incurs to respond to such violation as referenced in 12.08B.500.

ENFORCEMENT PROVISION

Violations of this Authorization or Tacoma Municipal Code, Chapter 12.08B and 12.08C may result in termination of the Special Approved Discharge Authorization and/or enforcement action in accordance with the policies and procedures contained in Tacoma's Enforcement Response Plan for wastewater, or Tacoma's Stormwater Compliance Policy for stormwater.

Date: _____ By: _____
Kurt Fremont
Business Operations Division Manager
Environmental Services

Date: _____ By: _____
Authorized Representative