

**Master City of San José Consultant Agreement
Approved Service Order
(Non-Capital Projects)**

Cover Page

1a. Intentionally Omitted **1b.** AC Contract No.: 30952

2. Approved Service Order No. 5

3. Consultant's Name: BSI Services and Solutions (West), Inc. (BSI)

4. Project Name: RWF Air Monitoring ("Project")

5. Project Location: San Jose – Santa Clara Regional Wastewater Facility (700 Los Esteros Road)

6. The Consultant and the City will implement this Approved Service Order in accordance with the Master Agreement, this cover page and Attachments "A" (Tasks), "B" (Terms and Conditions), and "C" (Compensation Table), which are incorporated herein by references.

7. Budget/Fiscal:

a. Current unencumbered amount in Master Agreement:	\$	250,919
b. Maximum Service Order Compensation for this Approved Service Order:	\$	8,900
c. New unencumbered balance in Master Agreement (7.a – 7.b):	\$	242,019

d. **Appropriation Certification:** I certify that an unexpended appropriation in the amount of the Maximum Service Order Compensation is available in the following fund(s) and that such fund(s) will be encumbered to pay for this Approved Service Order.

Fund: 513

Appn: 0762

RC: 961800

Amount: \$8,900

Authorized Signature:

Date: _____

Renata Moreno

Email: renato.moreno@sanjoseca.gov

8. Division Analyst Approval:

Date: _____

Vivian Tran

Email: vivian.tran@sanjoseca.gov

9. Consultant Approval:

Date: _____

Christopher S. Clasen

Email: chris.clasen@bsigroup.com

10. Approval as to Form (City Attorney):

Service Order Form Approved by the Office of the City Attorney
(Maximum Service Order Compensation is \$100,000 or less, and the provisions of the service order form are not altered.)

Approved as to Form: _____ Date: _____
(Sr.) Deputy City Attorney

11. City Director Approval: _____ Date: _____

Jennifer Voccola Brown
Email: napp.fukuda@sanjoseca.gov

Attachment A: Tasks

The Consultant shall provide the services and deliverables set forth in this **Attachment A**. The Consultant shall provide all services and deliverables required by this **Attachment A** to the satisfaction of the City's contract manager.

General Description of Project for which Consultant will Provide Services: Industrial Hygiene Assessment – exposure evaluation and ambient air quality testing at the San Jose – Santa Clara Regional Wastewater Facility (RWF).

Task No. 1: Exposure Assessment

- A. Services:** Perform an industrial hygiene (IH) exposure assessment. BSI will perform an IH assessment, similar to what was completed in September 2019 (ERM, 10/08/2019), to address employee concerns of potential exposure to fugitive dust from the recycling facility. The recycling facility is located approximately 600-800 feet west of the western boundary of the RWF (area of concern) where there is a train-loading station and several buildings. The sampling plan includes:
- Air sampling in worker breathing zone and area samples to assess for respirable silica and metals (9-metal profile) – 3 workers and 1 area sample
 - Area air sampling in two locations, upwind and downwind from the recycling facility, to assess particulate levels (PM2.5 and PM10) for comparison to ambient air quality standards.
 - Wipe sampling may be collected from within buildings to evaluate for potential infiltration and aerial deposition of metal-laden dust – up to 4 samples
 - All samples will be submitted to an AIHA accredited laboratory for analysis on standard 5-7 day turn around.

The assessment will be performed over 8 hours, during a weekday, during normal business hours, and during clear weather conditions. The assessment will be rescheduled should BSI encounter precipitation or atypical wind conditions.

B. Deliverables: Written Assessment Report.

BSI will provide a letter report of the survey findings, showing the sample locations, field observations, and analytical results. This report will be used to determine any recommended corrective response action(s).

C. Completion Time: The Consultant must complete the services and deliverable for this task in accordance with whichever one of the following times is marked:

- On or before the following date: _____.
- On or before 30 Business Days from receipt of analytical sample results.

Attachment B: Terms and Conditions

1. **City's Contract Manager:** The City's contract manager for this Approved Service Order is:

Name: Behilma Magday	Phone No.: 408-975-2593
Department: Environmental Services Department	E-mail: behilma.magday@sanjoseca.gov
Address: 200 E. Santa Clara St., 10 th Fl, San Jose, CA 95113	

2. **Consultant's Contract Manager and Other Staffing:** Identified below are the following: (a) the Consultant's contract manager for this Approved Service Order, and (b) the Consultant(s) and/or employee(s) of the Consultant who will be principally responsible for providing the services and deliverables. *If an individual identified below does not have a current Form 700 on file with the City Clerk for a separate agreement with the City, and is required to file a Form 700, the Consultant must comply with the requirements of Subsection 17.2 of the Master Agreement, entitled "Filing Form 700."*

<u>Consultant's Contract Manager</u>		<u>Required to File Form 700?</u>		
		Yes Already Filed (Date Filed)	Yes Need to File	No
Name: Chris Clasen	Phone No.: 970-225-1593			X
Address: 2150 North 1 st Street, #450, San Jose , CA 95131	E-mail: chris.clasen@bsigroup.com			
<u>Other Staffing</u>				
<u>Name:</u>	<u>Assignment:</u>			
1. Scott Myers	Task 1			X
2. Peiyan Sun	Task 1			X
3. Holly McDiffett-Mahaffey	Task 1			X

3. Subconsultants: Whichever of the following is marked applies to this Approved Service Order:

- The Consultant can *not* use any subconsultants.
- The Consultant can use the following subconsultants to assist in providing the required services and deliverables:

<u>Subconsultant's Name</u>	<u>Area of Work</u>
1. SGS	Analytical for samples
2.	
3.	

4. Reimbursable Expenses: If the Compensation Table set forth in **Attachment C** of this Approved Service Order states that the City will reimburse the Consultant for expenses, then only the expenses identified in Subsection 10.5.3 of the Master Agreement are Reimbursable Expenses unless the following box is marked and additional reimbursable expenses are set forth:

- In addition to the expenses identified in Subsection 10.5.3 of the Master Agreement, the following expenses are Reimbursable Expenses:

<u>Additional Reimbursable Expense(s)</u>	<u>Mark-up</u>
1. _____	_____
2. _____	_____
3. _____	_____

Notwithstanding the foregoing, any additional reimbursable expense(s) set forth in the above table will be disregarded if the Compensation Table states that the City will *not* reimburse the Consultant for any expenses.

Attachment C: Compensation Table

The City will compensate the Consultant for providing the services and deliverables set forth in **Attachment A** in accordance with this Compensation Table. This Compensation Table is subject to the terms and conditions set forth in the Master Agreement, including without limitation Section 10 of the Master Agreement.

Part 1 – Compensation for Services and Deliverables			
Column 1	Column 2	Column 3	Column 4
Task Nos. from Attachment A	Basis of Compensation	Invoice Period	Compensation
1	<input type="checkbox"/> Time & Materials <input checked="" type="checkbox"/> Fixed Fee	<input type="checkbox"/> Monthly <input type="checkbox"/> Completion of Task(s) <input checked="" type="checkbox"/> Completion of Work	\$6,141
	<input type="checkbox"/> Time & Materials <input type="checkbox"/> Fixed Fee	<input type="checkbox"/> Monthly <input type="checkbox"/> Completion of Task(s) <input type="checkbox"/> Completion of Work	\$
	<input type="checkbox"/> Time & Materials <input type="checkbox"/> Fixed Fee	<input type="checkbox"/> Monthly <input type="checkbox"/> Completion of Task(s) <input type="checkbox"/> Completion of Work	\$
	<input type="checkbox"/> Time & Materials <input type="checkbox"/> Fixed Fee	<input type="checkbox"/> Monthly <input type="checkbox"/> Completion of Task(s) <input type="checkbox"/> Completion of Work	\$
Part 2 – Reimbursable Expenses			
<input checked="" type="checkbox"/> No expenses are separately reimbursable. The amount(s) in Column 4 of Part 1 include(s) payment for all expenses.		<input type="checkbox"/> Expenses are separately reimbursable in the maximum amount of: \$0	
Part 3 – Subconsultant Costs			
<input type="checkbox"/> Subconsultant costs are not separately compensable. The amount(s) in Column 4 of Part 1 include(s) subconsultant costs.		<input checked="" type="checkbox"/> Subconsultant costs are separately compensable in the maximum amount of: \$2,759	
Maximum Service Order Compensation (sum of Parts 1 through 3):			\$8,900

Attachment D: Sub Consultant Schedule of Rates and Charges

SCS						
PHASE CONTRAST MICROSCOPY (PCM)						
Description	Same Day	1 Day	2 Day	3 Day	4 Day	5 Day
Airborne Fiber Counting (NIOSH 7400A)	15.29	13.10	12.01	10.92	9.83	8.73
Fiberglass Counting (NIOSH 7400B)	21.84	20.67	19.65	18.56	17.47	16.38
Sample prepared and not analyzed	4.37	4.37	4.37	4.37	4.37	4.37
Rotometer Calibrations	76.43	54.59	38.21	32.75	29.48	27.30
POLARIZED LIGHT MICROSCOPY (PLM)						
Standard Building Materials (EPA Method 600/R-93-116)	15.29	13.10	10.92	9.83	8.73	7.64
Complex Soil Samples (EPA Method 600/R-93-116)	49.13	32.75	29.48	27.30	24.02	21.84
Sample prepared and not analyzed	3.82	3.82	3.82	3.82	3.82	3.82
Complex Matrices (greater than 3 layers)	30.57	26.20	21.84	19.65	17.47	15.29
NESHAP Point Counting, 400 Points (in addition to PLM)	65.51	54.59	49.13	43.67	40.40	38.21
Gravimetry (Sample Reduction) Point Counting, 400 Points	109.18	81.89	76.43	73.15	70.97	65.51
Gravimetry (Sample Reduction) Point Counting, 1000 Points	218.36	98.26	92.80	87.34	81.89	76.43
Gravimetry (Sample Reduction) Prep Only	31.80	31.80	31.80	31.80	31.80	31.80
Vermiculite (EPA 600/R-93-116)	61.48	48.76	42.40	37.10	34.98	32.86
California ARB Method 435, 400 Points (in addition to PLM)	--	300.25	272.92	218.36	163.77	159.00
California ARB Method 435, 1000 Points (in addition to PLM)	--	382.13	327.54	272.95	245.66	218.36
TRANSMISSION ELECTRON MICROSCOPY (TEM)						
AIRBORNE ASBESTOS FIBER COUNTING						
Description	12 Hour	1 Day	2 Day	3 Day	4 Day	5 Day
AHERA	115.73	92.80	87.34	81.89	76.43	70.97
Yamate Level I or II	185.50	132.50	116.60	95.40	84.80	79.50
NIOSH 7402 Protocol	185.50	132.50	116.60	95.40	84.80	79.50
Additional Grid Openings	32.86	32.86	32.86	32.86	32.86	32.86
Sample Prepared and not analyzed	53.00	53.00	53.00	53.00	53.00	53.00
BULK MATERIAL						
Description	Same Day	1 Day	2 Day	3 Day	5 Day	10 Day
Qualitative	243.80	116.60	106.00	95.40	84.80	74.20
Semi-Quantitative (Chatfield), (Area Percent)	--	212.00	185.50	159.00	137.80	116.60
Quantitative Analysis (Weight Percent)	--	318.00	265.00	238.50	212.00	185.50
Sample prepared and not analyzed	--	84.80	84.80	84.80	84.80	84.80
MICROVAC						
Qualitative	233.20	116.60	106.00	95.40	84.80	74.20
ASTM Method D5755 (Fibers/Area)	291.50	265.00	238.50	212.00	185.50	106.00
TEM Dust Asbestos Surface Loading ASTM D5756	--	--	318.00	265.00	212.00	185.50
ASTM Method D6480 (Wipe, Fibers/Area)	302.10	265.00	238.50	212.00	159.00	106.00

Sample prepared and not analyzed	84.80	84.80	84.80	84.80	84.80	84.80
WATER/WASTEWATER						
Drinking Water, EPA Protocol 100.2 (MFL)	--	238.50	212.00	185.50	159.00	132.50
Wastewater, modified EPA Protocol 100.1 (MFL)	344.50	318.00	291.50	265.00	238.50	212.00
Wastewater, Title 22 (Weight Percent)	--	450.50	424.00	371.00	344.50	318.00
Sample prepared and not analyzed	84.80	84.80	84.80	84.80	84.80	84.80
Description	Same Day	1 Day	2 Day	3 Day	4 Day	5 Day
Wildfire (Opaques), Limited Particle ID by PLM Quantitation of combustion products and other particulates (Limited PID)	318.00	218.36	190.80	163.77	127.20	109.18
IAQ Settled Dust by PLM (major, minor) Limited particle identification (Major/Minor). Full Particle Identification available	238.50	212.00	185.50	159.00	132.50	106.00
Quantitation of combustion products only (Opaques) OPQ - % Area Full Particle Identification available	212.00	159.00	132.50	106.00	90.10	79.50
Full Particle Identification/Special Projects (billed hourly) Quantitation of all particulate components (Major/Minor/Trace). Use various instruments including but not limited to: light microscopy, Raman Spectroscopy, Fourier Transform Infrared Spectroscopy and electron microscopy	556.50	450.50	397.50	344.50	344.50	300.00
Description	Per Hour					
Opaques, Combustion Products, Full Particle ID by PLM	300.00					
METALS ANALYSIS OF AIR, PAINT CHIPS, BULK, SOIL, WATER, DUST						
TOTAL METAL CONCENTRATION (TTLC)						
Description	Same Day	1 Day	2 Day	3 Day	4 Day	5 Day
Lead, Flame AA	32.75	17.47	16.38	15.29	11.66	9.83
Individual Metals, ICP	32.75	17.47	16.38	15.29	11.66	9.83
Additional Metals, ICP (same sample)	26.50	15.35	14.26	13.17	9.54	7.71
Mercury, Cold Vapor	84.80	63.60	42.40	37.10	34.98	31.80
Lead, Graphite Furnace AA	76.43	54.59	43.67	32.75	29.48	27.30
Hexavalent Cr, OSHA 215v.2-Air/Wipe (incl welding)	--	132.50	79.50	74.20	71.02	68.90
Hexavalent Cr, OSHA 215v.2-Painting (Air/Wipe)	--	159.00	106.00	100.70	92.22	90.10
METALS SCAN						
Semi-Quantitative Scan 23 Metals, Method EPA 6010B (Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Ti, V, Zn)	636.00	530.00	265.00	243.80	217.30	169.60
Welding Fume Analysis 13 Metals Method OSHA ID 125G (Sb, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Ni, V, Zn)	530.00	286.20	265.00	185.50	164.30	148.40
WASTE CHARACTERIZATION						
Title 22 (CAM 17) Metals, Method EPA 6010B/7470A/7471A (Ag, As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mo, Ni, Pb, Sb, Se, Ti, V, Zn)	530.00	424.00	371.00	265.00	238.50	206.70
RCRA/EPTOX 8 Metals, Method EPA 6010 (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)	424.00	212.00	185.50	143.10	127.20	111.30
WASTE EXTRACTION						
Description	1 Day	2 Day	3 Day	4 Day	5 Day	
STLC Extraction Only, CA WET	--	132.50	116.60	95.40	79.50	
STLC Lead only, CA WET/EPA 7420	--	--	131.89	107.06	89.33	
STLC CAM 17 Metals, CA WET/EPA 6010B/7470A	--	--	450.50	368.35	286.20	

TCLP Extraction Only, EPA 1311	159.00	132.50	116.60	95.40	79.50	
TCLP Lead Only, EPA 1311/7420	180.20	159.00	131.89	107.06	89.33	
TCLP RCRA 8 Metals, EPA 1311/6010B/7470A	--	318.00	286.20	238.50	185.50	
Compositing of Waste Samples	10.60	10.60	10.60	10.60	10.60	
Minimum time for STLC extraction is 2 days; for TCLP extraction is 1 day; surcharges apply						
GRAVIMETRIC, SILICA, OTHER						
Description	Same Day	1 Day	2 Day	3 Day	4 Day	5 Day
Gravimetric (Total, Respirable Dust)	47.70	38.16	34.98	31.80	28.62	26.50
pH Analysis	31.80	27.56	24.38	21.20	18.02	15.90
Crystalline Silica in Air, NIOSH 7603 – OSHA Compliance						
Crystalline Silica in Air (all 3 polymorphs)	--	212.00	185.50	159.00	132.50	116.60
Crystalline Silica in Air w/ Gravimetry (all 3 polymorphs)	--	227.90	212.00	185.50	159.00	132.50
Crystalline Silica in Air, Quartz Only	--	132.50	106.00	84.80	74.20	63.60
Crystalline Silica in Air, Quartz Only w/ Gravimetry	--	143.10	116.60	95.40	84.80	74.20
Wipe Sample for Toxic Residue – NIOSH 9111 Modified (Liquid Chromatography/Mass Spectrometry)						
FENTANYL						
Fentanyl Residue	--	--	--	132.50	106.00	79.50
METHAMPHETAMINE						
Methamphetamine Residue	--	--	132.50	106.00	96.46	74.20
VIABLE FUNGI						
AIR SAMPLES – ANDERSEN SAMPLES/RCS STRIPS						
Description	7-14 Day					
Colony Count + Genus ID	42.40					
Colony Count +Species ID of Aspergillus/Stachybotrys	47.70					
BULK/SURFACE SAMPLES (BULK, SWABS, DUST, ETC.)						
Colony Count + Genus ID	53.00					
Colony Count +Species ID of Aspergillus/Stachybotrys	58.30					
RODAC CONTACT PLATE SAMPLES						
Colony Count + Genus ID	42.40					
Colony Count +Species ID of Aspergillus/Stachybotrys	47.70					
Description	Per Hour					
Comprehensive Species ID	265.00					
NON-VIABLE FUNGI						
Description	<24 Hour*	1 Day	2 Day	3 Day		
Air Samples (Air-O-Cell, Allergenco D, Micro 5)	31.80	28.62	27.56	26.50		
Bulk/Surface Samples	31.80	28.62	27.56	26.50		
Prep Fee	15.90	15.90	15.90	15.90		
Field Blank (Air)	15.90	15.90	15.90	15.90		
BACTERIA						
Description	1 Day	2 Day	3 Day	4 Day	5 Day	
Colony Count-Air	--	31.80	21.20	19.08	--	

Colony Count-Bulk	--	31.80	21.20	19.08	--	
Species Identification (per isolate)						
Description	1 Day	2 Day	3 Day	4 Day*	5 Day	
1 isolate	--	--	--	--	84.80	
2-5 isolates	--	--	--	--	79.50	
6-10 isolates	--	--	--	--	63.60	
11-15 isolates	--	--	--	--	53.00	
16-25 isolates	--	--	--	--	47.70	
26+ isolates	--	--	--	--	42.40	
SEWAGE SCREENS						
Description	1 Day	2 Day	3 Day	4 Day	5 Day	
Qualitative Total Coliform and E. coli (MUG)	53.00	31.80	--	--	--	
Qualitative Enterococcus	53.00	26.50	--	--	--	
Qualitative Total Coliform and E. coli (MUG) + Enterococcus	95.40	53.00	--	--	--	
Quantitative Total Coliform and E. coli (MPN)	84.80	42.40	--	--	--	
Quantitative Enterococcus	84.80	42.40	--	--	--	
Quantitative Total Coliform and E. coli (MPN) + Enterococcus	116.60	68.90	--	--	--	
LEGIONELLA						
Description	Same Day*	1 Day	2 Day	3 Day	14 Day	7-14 Day
Culture Legionella pneumophila identification + Serogroups (1; 2-14)****	--	--	--	--	159.00	--
Molecular qPCR - species	106.00	95.40	84.80	74.20	--	--
Molecular Presumptive (+/-) (Veriflow)	84.80	74.20	63.60	--	--	--
Total Yeast and Mold Count*****	--	--	--	--	--	31.80
Description	<24 Hour	1 Day	2 Day	3 Day	4 Day	5 Day
Water Activity	42.40	37.10	31.80	31.80	28.62	26.50
PH	31.80	26.50	21.20	19.08	18.02	15.90
OTHER						
Description	5 Day			7-14 Day		
Bacteria Count + ID (air and surface)***	106.00			--		
Fungal Count + ID (air and surface)**	--			79.50		
Gloves***	79.50			--		
Media Fill Test***	26.50			--		
Comprehensive (surface bacteria, surface fungi and glove)**	--			265.00		
REAL-TIME POLYMERASE CHAIN REACTION (PCR)						
ENVIRONMENTAL RELATIVE MOLDINESS INDEX (ERMI) PANEL						
Description	<1 Day		1 Day		2 Day	
This panel quantifies 36 species of molds by qPCR to produce an ERMI™ score. This score rates your home on the EPA-developed Relative Moldiness Index, which assesses the likelihood that your home has been involved in a mold growth event in the past or in the present. Analysis code: PCRERMI						
Acronium strictum, Alternaria alternata, Aspergillus flavus,	477.00		402.80		349.80	

Aspergillus fumigatus, Aspergillus niger, Aspergillus ochraceus, Aspergillus penicilloides, Aspergillus restrictus, Aspergillus sclerotiorum, Aspergillus sydowii, Aspergillus unguis, Aspergillus ustus, Aspergillus versicolor, Aureobasidium pullulans, Chaetomium globosum, Cladosporium cladosporioides I, Cladosporium cladosporioides II, Cladosporium herbarum, Cladosporium sphaerospermum, Epicoccum nigrum, Eurotium amstelodami, Mucor racemosus, Paecilomyces variotii, Penicillium brevicompactum, Penicillium chrysogenum, Penicillium corylophilum, Penicillium crustosum, Penicillium purpurogenum, Penicillium spinulosum, Penicillium variabile, Rhizopus stolonifera, Scopulariopsis brevicaulis, Scopulariopsis chartarum, Stachybotrys chartarum, Trichoderma viride, Wallemia sebi						
qPCR*****						
Description	<24 Hour	1 Day	2 Day	3 Day	4 Day	5 Day
Environmental Relative Moldiness Index (ERMI) Panel	477.00	402.80	349.80	307.40	275.60	254.40
OTHER						
Description	<24 Hour*	1 Day*	2 Day	3 Day	4 Day	5 Day
PCR Flexible Healthcare Facility Panel	349.80	275.60	222.60	180.20	148.40	127.20
PCR Infection Control Panel	360.40	286.20	233.20	190.80	159.00	137.80
Sample received but not analyzed	18.55	18.55	18.55	18.55	18.55	18.55
SAMPLE MEDIA						
ASBESTOS/TEM MEDIA						
Description	Each					
25 mm, 0.8 um PCM Cassettes	--					
25 mm, 0.45 um TEM Cassettes MCE	2.12					
TEM Water Bottle (1L, HDPE)	10.60					
Tape Lift Kit, 5 Slides	10.60					
METALS MEDIA						
37 mm, 0.8 um MCE Cassette Metals NO Hg	2.12					
37 mm PW PVC Cassette-Dust Cr6+ Metals	7.42					
37 mm, PVC Cassette – Cr6+, Metals (Pb and any other)	5.30					
Ghost Wipes (Pb + CAM17)	--					
Centrifuge Tubes, 50 mL	--					
Template (10x10 Disposal)	0.53					
Template (12x12 Disposal)	0.80					
Metals in Water, Bottles, 250 mL	3.18					
Metals in Water, Bottles, 1 L	4.77					
Hg Wipes (mercury only)	0.53					
Sorbent Tubes for mercury	5.30					
SPECIALTY MEDIA						
Drug Residue Wipe Kit	10.60					
Glass Jar 2oz (PCBs)	--					
Wipe (PCBs)	--					
MICROBIOLOGY MEDIA						

Description	Each	Pack of 10
Malt Extract Agar (MEA) Plates	2.12	15.90
Tryptic Soy Agar (TSA) Plates	2.12	15.90
Allergenco-D Cassettes	5.30	--
37 mm, 0.4 um PCR Cassette – Polycarbonate qPCR	2.65	--
Tape Lift Kits (5 slides)	10.60	--
Water Bottles with Sodium Thiosulfate (120 mL)	1.59	--
Water Bottles with Sodium Thiosulfate (290 mL)	2.12	--
Water Bottle with Sodium Thiosulfate (1 L)	4.24	--
*Scheduling Required **7-14 Turnaround Time (TAT) ***5 Day TAT ****14 Day TAT *****Please call for Pricing/Details		