

# ORION Environmental Services

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## Industrial Hygiene Air Monitoring Worksheet Asbestos Air Sampling (NIOSH Method 7400A or 7402)

Project Name: 950 Building

Project Number: N19-0575

Project Location: 950 Fawcett Avenue  
Tacoma, WA 98402

Client: Hultz BHU  
 Supervisor Rick Hultz

Sample By: N Rauschenberger

Date: 3/27/20

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Sample ID: <u>950-89</u>	Observations: <u>LOAD OUT AREA</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>I</u>		<input type="checkbox"/> TEM NIOSH
Protection: <u>I</u>		LOD <u>0.003</u> f/cc
Decon: <u>I</u>	Worker: _____ SSN or Cert: <u>SEE MAP</u>	Fiber <u>2</u>
Environment: <u>I</u>	Start: <u>16:00</u> Start Flow: <u>2.5</u>	Field: <u>100</u>
Pump: <u>LV17</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: _____	f/cc: <u>10003</u>
Rotometer: <u>LV14</u>	Minutes: <u>360</u> Average: <u>2.5</u> <u>900</u> L	TWA: _____ f/cc

Sample ID: <u>950-90</u>	Observations: <u>CLEAR ROOM</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>I</u>		<input type="checkbox"/> TEM NIOSH
Protection: <u>I</u>		LOD <u>0.003</u> f/cc
Decon: <u>I</u>	Worker: _____ SSN or Cert: <u>SEE MAP</u>	Fiber <u>3</u>
Environment: <u>I</u>	Start: <u>16:00</u> Start Flow: <u>2.5</u>	Field: <u>100</u>
Pump: <u>LV18</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: _____	f/cc: <u>10003</u>
Rotometer: <u>LV14</u>	Minutes: <u>360</u> Average: <u>2.5</u> <u>900</u> L	TWA: _____ f/cc

Sample ID: <u>950-91</u>	Observations: <u>NEG AIR HEPA</u> <u>NEG AIR MACHINE 1047</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>M</u>		<input type="checkbox"/> TEM NIOSH
Protection: <u>I</u>		LOD <u>0.003</u> f/cc
Decon: <u>I</u>	Worker: _____ SSN or Cert: <u>SEE MAP</u>	Fiber <u>0</u>
Environment: <u>I</u>	Start: <u>16:00</u> Start Flow: <u>2.5</u>	Field: <u>100</u>
Pump: <u>LV6A</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: _____	f/cc: <u>10003</u>
Rotometer: <u>LV14</u>	Minutes: <u>360</u> Average: <u>2.5</u> <u>900</u> L	TWA: _____ f/cc

Sample ID: <u>950-92</u>	Observations: <u>OUTSIDE DECON</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>O</u>		<input type="checkbox"/> TEM NIOSH
Protection: <u>NA</u>		LOD <u>0.003</u> f/cc
Decon: <u>I</u>	Worker: _____ SSN or Cert: <u>SEE MAP</u>	Fiber <u>10</u>
Environment: <u>I</u>	Start: <u>16:00</u> Start Flow: <u>2.5</u>	Field: <u>100</u>
Pump: <u>423</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: _____	f/cc: <u>0005</u>
Rotometer: <u>LV14</u>	Minutes: <u>360</u> Average: <u>2.5</u> <u>900</u> L	TWA: _____ f/cc

Sample Types	
P Personal	CL Clearance
E Excursion	H Hepa
C Ceiling	FBL Field Blank
I Inside Area	SBL Sealed Blank
O Outside Area	Pre Preliminary

Control Measures		
<u>Respiratory Protection</u>	<u>Decontamination</u>	<u>Environment</u>
M Half Face APR	D Decon w/o Shower	G Glovebag
F Full Face APR	DS Decon w/ Shower	M Mini Enclosure
PAPR Powered APR	DBS Double Suite	F Full Enclosure
CF Continuous Flow	LDS Local Decon Station	ME Modified Encl.
PD Pressure Demand		R Regulated Area
		NE No Enclosure

Turnaround
<input type="checkbox"/> Now
<input type="checkbox"/> 24 Hour
<input type="checkbox"/> 3 Day
<input type="checkbox"/> 5 Day
<input type="checkbox"/> 7 Day
<input type="checkbox"/> 14 Day

Date:

Relinquished By (print): <u>NATE RAUSCHENBERGER</u>	Date: <u>3/27/20</u>	Received By (print): _____	Date: _____
Relinquished By (signature): <u>[Signature]</u>	Time: _____	Received By (signature): _____	Time: _____
Analyzed By (print): <u>D. Rauschenberger</u>	Date: <u>3-30-20</u>	Reviewed By (print): _____	Date: _____
Analyzed By (signature): <u>[Signature]</u>	Time: <u>8:30 AM</u>	Reviewed By (signature): _____	Time: _____



## Industrial Hygiene Air Monitoring Continuation Worksheet Asbestos Air Sampling (NIOSH Method 7400A)

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Project Name: \_\_\_\_\_

Project Number: \_\_\_\_\_

Sample ID <u>950-81</u>	Observations <u>Blind Recount</u>	Date: <u>3-30-20</u>	<input checked="" type="checkbox"/>	PCM
Sample Type: <u>0</u>			<input type="checkbox"/>	TEM NIOSH
Protection: <u>UA</u>			LOD _____	f/cc
Decon: _____	Worker _____	SSN or Cert _____	Fiber <u>0</u>	
Environment: _____	Start _____ : _____	Start Flow _____	Field <u>100</u>	
Pump: _____	Stop _____ : _____	Stop Flow _____	f/cc _____	
Rotameter _____	Minutes _____	Average _____	TWA _____	f/cc
				L

Sample ID _____	Observations _____	Date: _____	<input type="checkbox"/>	PCM
Sample Type: _____			<input type="checkbox"/>	TEM NIOSH
Protection: _____			LOD _____	f/cc
Decon: _____	Worker _____	SSN or Cert _____	Fiber _____	
Environment: _____	Start _____ : _____	Start Flow _____	Field _____	
Pump: _____	Stop _____ : _____	Stop Flow _____	f/cc _____	
Rotameter _____	Minutes _____	Average _____	TWA _____	f/cc
				L

Sample ID _____	Observations _____	Date: _____	<input type="checkbox"/>	PCM
Sample Type: _____			<input type="checkbox"/>	TEM NIOSH
Protection: _____			LOD _____	f/cc
Decon: _____	Worker _____	SSN or Cert _____	Fiber _____	
Environment: _____	Start _____ : _____	Start Flow _____	Field _____	
Pump: _____	Stop _____ : _____	Stop Flow _____	f/cc _____	
Rotameter _____	Minutes _____	Average _____	TWA _____	f/cc
				L

Sample ID _____	Observations _____	Date: _____	<input type="checkbox"/>	PCM
Sample Type: _____			<input type="checkbox"/>	TEM NIOSH
Protection: _____			LOD _____	f/cc
Decon: _____	Worker _____	SSN or Cert _____	Fiber _____	
Environment: _____	Start _____ : _____	Start Flow _____	Field _____	
Pump: _____	Stop _____ : _____	Stop Flow _____	f/cc _____	
Rotameter _____	Minutes _____	Average _____	TWA _____	f/cc
				L

Sample ID _____	Observations _____	Date: _____	<input type="checkbox"/>	PCM
Sample Type: _____			<input type="checkbox"/>	TEM NIOSH
Protection: _____			LOD _____	f/cc
Decon: _____	Worker _____	SSN or Cert _____	Fiber _____	
Environment: _____	Start _____ : _____	Start Flow _____	Field _____	
Pump: _____	Stop _____ : _____	Stop Flow _____	f/cc _____	
Rotameter _____	Minutes _____	Average _____	TWA _____	f/cc
				L

Relinquished By (Print)	Date	Received By (Print)	Date
Relinquished By (Signature)	Time	Received By (Signature)	Time
Analyzed By (Print) <u>D. RAUSCHENBACH</u>	Date <u>3-30-20</u>	Reviewed By (Print)	Date
Analyzed By (Signature) <u>DLR</u>	Time <u>8:30 AM</u>	Reviewed By (Signature)	Time



## Industrial Hygiene Air Monitoring Continuation Worksheet

### Asbestos Air Sampling (NIOSH Method 7400A)

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Project Name: 950 BUILDING

Project Number: NA-0575

Sample ID: <u>950-93</u>	Observations: <u>OUTSIDE CONTAINMENT 2ND FLR HALLWAY</u>	Date: <u>3/27/20</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>0</u>	Worker: <u>      </u> SSN or Cert: <u>SEE MAP</u>	Start: <u>16:05</u> Start Flow: <u>2.5</u>	<input type="checkbox"/> TEM NIOSH
Protection: <u>NA</u>			LOD: <u>0.004</u> f/cc
Decon: <u>↓</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: <u>      </u>	Minutes: <u>355</u> Average: <u>2.5</u> <u>887.5</u> L	Fiber: <u>6</u>
Environment: <u>↓</u>			Field: <u>100</u>
Pump: <u>420</u>			f/cc: <u>0.004</u>
Rotameter: <u>MV14</u>			TWA: <u>      </u> f/cc

Sample ID: <u>950-94</u>	Observations: <u>OUTSIDE CONTAINMENT 2ND FLR ELEVATOR LOBBY</u>	Date: <u>3/27/20</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>0</u>	Worker: <u>      </u> SSN or Cert: <u>SEE MAP</u>	Start: <u>16:05</u> Start Flow: <u>2.5</u>	<input type="checkbox"/> TEM NIOSH
Protection: <u>NA</u>			LOD: <u>0.004</u> f/cc
Decon: <u>↓</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: <u>      </u>	Minutes: <u>355</u> Average: <u>2.5</u> <u>887.5</u> L	Fiber: <u>3</u>
Environment: <u>↓</u>			Field: <u>100</u>
Pump: <u>152</u>			f/cc: <u>0.004</u>
Rotameter: <u>MV14</u>			TWA: <u>      </u> f/cc

Sample ID: <u>950-95</u>	Observations: <u>OUTSIDE CONTAINMENT 3RD FLR CONFERENCE</u>	Date: <u>3/27/20</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>0</u>	Worker: <u>      </u> SSN or Cert: <u>SEE MAP</u>	Start: <u>16:05</u> Start Flow: <u>2.5</u>	<input type="checkbox"/> TEM NIOSH
Protection: <u>NA</u>			LOD: <u>0.004</u> f/cc
Decon: <u>↓</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: <u>      </u>	Minutes: <u>355</u> Average: <u>2.5</u> <u>887.5</u> L	Fiber: <u>2</u>
Environment: <u>↓</u>			Field: <u>100</u>
Pump: <u>315</u>			f/cc: <u>0.004</u>
Rotameter: <u>MV14</u>			TWA: <u>      </u> f/cc

Sample ID: <u>950-96</u>	Observations: <u>OUTSIDE CONTAINMENT 3RD FLR KITCHENETTE</u>	Date: <u>3/27/20</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>0</u>	Worker: <u>      </u> SSN or Cert: <u>SEE MAP</u>	Start: <u>16:05</u> Start Flow: <u>2.5</u>	<input type="checkbox"/> TEM NIOSH
Protection: <u>NA</u>			LOD: <u>0.004</u> f/cc
Decon: <u>↓</u>	Stop: <u>22:00</u> Stop Flow: <u>2.5</u> Volume: <u>      </u>	Minutes: <u>355</u> Average: <u>2.5</u> <u>887.5</u> L	Fiber: <u>0</u>
Environment: <u>↓</u>			Field: <u>100</u>
Pump: <u>133</u>			f/cc: <u>0.004</u>
Rotameter: <u>MV14</u>			TWA: <u>      </u> f/cc

Sample ID: <u>950-97</u>	Observations: <u>BLANK</u>	Date: <u>3/27/20</u>	<input checked="" type="checkbox"/> PCM
Sample Type: <u>FBL</u>	Worker: <u>      </u> SSN or Cert: <u>      </u>	Start: <u>   </u> : <u>   </u> Start Flow: <u>   </u>	<input type="checkbox"/> TEM NIOSH
Protection: <u>      </u>			LOD: <u>      </u> f/cc
Decon: <u>      </u>	Stop: <u>   </u> : <u>   </u> Stop Flow: <u>   </u> Volume: <u>      </u>	Minutes: <u>      </u> Average: <u>   </u> <u>      </u> L	Fiber: <u>0</u>
Environment: <u>      </u>			Field: <u>100</u>
Pump: <u>      </u>			f/cc: <u>      </u>
Rotameter: <u>      </u>			TWA: <u>      </u> f/cc
Analysed by: <u>      </u>	Date: <u>      </u>		

Relinquished By (Print): <u>NATE REEDERS</u>	Date: <u>3/27/20</u>	Received By (Print): <u>      </u>	Date: <u>      </u>
Relinquished By (Signature): <u>[Signature]</u>	Time: <u>      </u>	Received By (Signature): <u>      </u>	Time: <u>      </u>
Analyzed By (Print): <u>R. Rauschenberg</u>	Date: <u>5-30-20</u>	Reviewed By (Print): <u>      </u>	Date: <u>      </u>
Analyzed By (Signature): <u>[Signature]</u>	Time: <u>      </u>	Reviewed By (Signature): <u>      </u>	Time: <u>      </u>