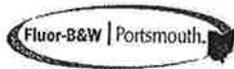


Example Radiological Work Permits (RWP)

Mowing/grounds services occurs in and near radioactive material and contaminated areas requiring specific training and personal protective equipment. Use and strict adherence to established RWPs is required. Attached are examples of RWPs for areas in which the ISS Contractor shall perform work. This is not a complete listing of grounds areas covered by an RWP. The contamination areas which are routinely maintained include the following:

- X-744G
- X-701B
- X-705
- East side of X-343
- Old Coal Yard
- X-760
- X-770
- X-108E
- X-330



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RADIOLOGICAL WORK PERMIT

RWP No. S2014-00208 Revision: 0 Title: 701B Culvert Cleanout

Task: Entry for Inspections, Surveys and Radcon Approved Tasks 1 of 3

15. Personal Protective Equipment (PPE) (check all that apply)

NONE	<input type="checkbox"/>							
ANTI-CONTAMINATION CLOTHING	<input checked="" type="checkbox"/>	COVERALLS	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>		
		HOOD	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>		
		GLOVES	<input checked="" type="checkbox"/>	Rubber/Pair: <input type="checkbox"/>	Surgeon/Pair: <input checked="" type="checkbox"/> 2	Nitrile/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		BOOTIES	<input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>			
		SHOE COVERS	<input checked="" type="checkbox"/>	Rubber/Pair: <input checked="" type="checkbox"/> 1	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>		
		SLEEVE TIES	<input type="checkbox"/>	LAB COAT	<input type="checkbox"/>	WELDER APRONS		<input type="checkbox"/>
		FACE SHIELDS	<input type="checkbox"/>	SAFETY GLASSES (BETA)	<input type="checkbox"/>	OTHER (Describe Below)		<input type="checkbox"/>
RESPIRATORY PROTECTION	<input checked="" type="checkbox"/>	NO RESPIRATOR	<input checked="" type="checkbox"/>	FULL FACE RESPIRATOR	<input type="checkbox"/>	PAPR	<input type="checkbox"/>	
		BUBBLE HOOD	<input type="checkbox"/>	AIRLINE TIGHT FITTING FACEPIECE	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>	

COMMENTS: **Sleevettes may be required by Radcon**
Outer gloves can be substituted for work gloves, which provide equal or greater protection.

16. Air Monitoring

AIR SAMPLING DEVICE	<input checked="" type="checkbox"/>	NONE	<input checked="" type="checkbox"/>	BZ PUMP	<input type="checkbox"/>	HI-VOL	<input type="checkbox"/>
		LO-VOL	<input type="checkbox"/>	CAM	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>

COMMENTS: **None**

17. Radiological Control Hold Points

> 10,000 dpm/100cm² Loose Surface Contamination.
Contact Radcon if scope of work changes.

18. RCT Coverage

START OF JOB	<input type="checkbox"/>	CONTINUOUS	<input type="checkbox"/>	INTERMITTENT	<input checked="" type="checkbox"/>
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COMMENTS: **None**

19. Special Instructions

1. Company Issued clothing **REQUIRED** to be worn when entering a contamination area, airborne radioactivity area, high contamination area.
2. Perform Full Body Frisk upon exiting area with Lud-12 Beta Meter.
3. No Personal Cell Phones are permitted inside the contamination area.
4. Notify Radcon for survey of items/tools prior to removal from boundary.
5. No items/tools to exit boundary until dry.

RADIOLOGICAL WORK PERMIT

RWP No. S2014-00208 Revision: 0 Title: 701B Culvert Cleanout

Task: Placement of Debris for Drying and Packaging into Intermodal 2 of 3

15. Personal Protective Equipment (PPE) (check all that apply)

NONE	<input type="checkbox"/>						
ANTI-CONTAMINATION CLOTHING	<input checked="" type="checkbox"/>	COVERALLS	<input checked="" type="checkbox"/>	Cloth/Pair: <input checked="" type="checkbox"/> 1	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		HOOD	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		GLOVES	<input checked="" type="checkbox"/>	Rubber/Pair: <input type="checkbox"/>	Surgeon/Pair: <input checked="" type="checkbox"/> 2	Nitrile/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>
		BOOTIES	<input checked="" type="checkbox"/>	Disposable/Pair: <input checked="" type="checkbox"/> 1	Other/Pair: <input type="checkbox"/>		
		SHOE COVERS	<input checked="" type="checkbox"/>	Rubber/Pair: <input checked="" type="checkbox"/> 1	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		SLEEVE/TIES	<input type="checkbox"/>	LAB COAT	<input type="checkbox"/>	WELDER APRONS	<input type="checkbox"/>
		FACE SHIELDS	<input type="checkbox"/>	SAFETY GLASSES (BETA)	<input type="checkbox"/>	OTHER (Describe Below)	<input checked="" type="checkbox"/>
RESPIRATORY PROTECTION	<input checked="" type="checkbox"/>	NO RESPIRATOR	<input checked="" type="checkbox"/>	FULL FACE RESPIRATOR	<input type="checkbox"/>	PAPR	<input type="checkbox"/>
		BUBBLE HOOD	<input type="checkbox"/>	AIRLINE TIGHT FITTING FACEPIECE	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>
		COMMENTS: Required to wear water resistant Apron Tape inner pair of gloves and booties to coveralls. Disposable shoe covers may be worn in place of rubber shoe covers (Use CAUTION- Wet Surfaces) Outer pair of disposable gloves may be substituted with work gloves.					

16. Air Monitoring

AIR SAMPLING DEVICE	<input checked="" type="checkbox"/>	NONE	<input checked="" type="checkbox"/>	BZ PUMP	<input type="checkbox"/>	HI-VOL	<input type="checkbox"/>
		LO-VOL	<input type="checkbox"/>	CAM	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>
COMMENTS: None							

17. Radiological Control Hold Points

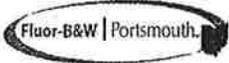
> 10,000 dpm/100cm² Loose Surface Contamination
If scope of work changes contact Radcon

18. RCT Coverage

START OF JOB	<input type="checkbox"/>	CONTINUOUS	<input type="checkbox"/>	INTERMITTENT	<input checked="" type="checkbox"/>
COMMENTS: Contact Radcon Prior to Entry					

19. Special Instructions

1. Company Issued clothing REQUIRED to be worn when entering a contamination area, airborne radioactivity area, high contamination area.
2. Perform Full Body Frisk upon exiting area with Lud-12 Beta Meter.
3. No Personal Cell Phones are permitted inside the contamination area.
4. Notify Radcon for survey of items/tools prior to removal from boundary.
5. No items/tools to exit boundary until dry.



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RADIOLOGICAL WORK PERMIT

RWP No. S2014-00208 Revision: 0 Title: 701B Culvert Cleanout

Task: Debris Removal from Culvert by Boat Page 3 of 3

15. Personal Protective Equipment (PPE) (check all that apply)

NONE	<input type="checkbox"/>						
ANTI-CONTAMINATION CLOTHING	<input checked="" type="checkbox"/>	COVERALLS	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		HOOD	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		GLOVES	<input checked="" type="checkbox"/>	Rubber/Pair: <input type="checkbox"/>	Surgeon/Pair: <input checked="" type="checkbox"/> <u>2</u>	Nitrile/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>
		BOOTIES	<input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>		
		SHOE COVERS	<input checked="" type="checkbox"/>	Rubber/Pair: <input checked="" type="checkbox"/> <u>1</u>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		SLEEVETTES	<input type="checkbox"/>	LAB COAT	<input type="checkbox"/>	WELDER APRONS	<input type="checkbox"/>
		FACE SHIELDS	<input type="checkbox"/>	SAFETY GLASSES (BETA)	<input type="checkbox"/>	OTHER (Describe Below)	<input checked="" type="checkbox"/>
RESPIRATORY PROTECTION	<input checked="" type="checkbox"/>	NO RESPIRATOR	<input checked="" type="checkbox"/>	FULL FACE RESPIRATOR	<input type="checkbox"/>	PAPR	<input type="checkbox"/>
		BUBBLE HOOD	<input type="checkbox"/>	AIRLINE TIGHT FITTING FACEPIECE	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>

COMMENTS: Required to wear water resistant Apron
 Disposable shoe covers may be worn in place of rubber shoe covers (Use CAUTION- Wet Surfaces)
 Outer pair of disposable gloves may be substituted with work gloves.

16. Air Monitoring

AIR SAMPLING DEVICE	<input checked="" type="checkbox"/>	NONE	<input checked="" type="checkbox"/>	BZ PUMP	<input type="checkbox"/>	HI-VOL	<input type="checkbox"/>
		LO-VOL	<input type="checkbox"/>	CAM	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>

COMMENTS: None

17. Radiological Control Hold Points

> 10,000 dpm/100cm² Loose Surface Contamination
 If Scope of work changes contact Radcon

18. RCT Coverage

START OF JOB	<input type="checkbox"/>	CONTINUOUS	<input type="checkbox"/>	INTERMITTENT	<input checked="" type="checkbox"/>
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COMMENTS: Contact Radcon Prior to Entry

19. Special Instructions

1. Company Issued clothing REQUIRED to be worn when entering a contamination area, airborne radioactivity area, high contamination area.
2. Perform Full Body Frisk upon exiting area with Lud-12 Beta Meter.
3. No Personal Cell Phones are permitted inside the contamination area.
4. Notify Radcon for survey of items/tools prior to removal from boundary.
5. No items/tools to exit boundary until dry.



COPY

RADIOLOGICAL WORK PERMIT

1. RWP Information:		Start Date:	Expire Date:
RWP # <u>G2014-00047</u> Revision: <u>1</u>		3/12/2014	12/31/2014
Title: <u>X-340's Complex "Soil Contamination Areas" General Entry</u>		<input checked="" type="checkbox"/> General	<input type="checkbox"/> RWP Extended See Section 13.
Facility: <u>X-344</u> Location: <u>All "Soil Contamination Areas"</u>		<input type="checkbox"/> Job Specific	
2. Job Description:			
General Entry, Surveys, Surveillances, Valving Operations, Minor Maintenance, And RADCON Approved Tasks			
3. ALARA Job Review Required:			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		ALARA Review #: <u>N/A</u>	
4. Pre-Job Radiological Data:			
Airborne Levels: <u><1.0 X 10E-11</u> (α) <u><3.0 X 10E-8</u> (β/γ)		Radiation Levels (mrem/hr): <u><0.2 - 1.0</u> GA <u>1.0</u> Highest <input type="checkbox"/> N/A	Contamination Levels (dpm/100cm ²): <u><200</u> (α) <u><700</u> (β/γ)
5. Anticipated Radiological Postings: (check all that apply)			
<input checked="" type="checkbox"/> Contamination Area <input type="checkbox"/> High Contamination Area <input type="checkbox"/> Airborne Radioactivity Area <input type="checkbox"/> Other (Describe Below)			
<input checked="" type="checkbox"/> Radiation Area <input type="checkbox"/> High Radiation Area <input checked="" type="checkbox"/> Radionuclides Expected: <u>Uranium</u>			
COMMENTS: This RWP controls access to all "Soil Contamination Areas" located on the grounds surrounding the X-342 & X-344 buildings			
6. Pre-Job Briefing Required:			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (Mandatory for Job Specific RWPs)			
7. Training Requirements:			
RADWORKER II	<input checked="" type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>
COMMENTS: None			

RADIOLOGICAL WORK PERMIT

RWP No. G2014-00047 Revision: 1 Title: X-340's Complex "Soil Contamination Areas" General Entry

Task: General Entry, Surveys, Surveillances, Valving Operations, Minor Maint., & RADCON Approved Tasks 1 of 1

15. Personal Protective Equipment(PPE) : (check all that apply)

NONE	<input type="checkbox"/>						
ANTI-CONTAMINATION CLOTHING	<input checked="" type="checkbox"/>	COVERALLS	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		HOOD	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>	
		GLOVES	<input checked="" type="checkbox"/>	Rubber/Pair: <input type="checkbox"/>	Surgeon/Pair: <input checked="" type="checkbox"/> <u>2</u>	Nitrile/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>
		BOOTIES	<input checked="" type="checkbox"/>	Disposable/Pair: <input checked="" type="checkbox"/> <u>1</u>	Other/Pair: <input type="checkbox"/>		
		SHOE COVERS	<input checked="" type="checkbox"/>	Rubber/Pair: <input type="checkbox"/>	Disposable/Pair: <input checked="" type="checkbox"/> <u>1</u>	Other/Pair: <input type="checkbox"/>	
		SLEEVETTES	<input type="checkbox"/>	LAB COAT	<input type="checkbox"/>	WELDER APRONS	<input type="checkbox"/>
		FACE SHIELDS	<input type="checkbox"/>	SAFETY GLASSES (BETA)	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>
RESPIRATORY PROTECTION	<input checked="" type="checkbox"/>	NO RESPIRATOR	<input checked="" type="checkbox"/>	FULL FACE RESPIRATOR	<input type="checkbox"/>	PAPR	<input type="checkbox"/>
		BUBBLE HOOD	<input type="checkbox"/>	AIRLINE TIGHT FITTING FACEPIECE	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>

COMMENTS: Second pair of surgeon gloves may be substituted by leather work gloves

16. Air Monitoring:

AIR SAMPLING DEVICE	<input checked="" type="checkbox"/>	NONE	<input checked="" type="checkbox"/>	BZ PUMP	<input type="checkbox"/>	HI-VOL	<input type="checkbox"/>
		LO-VOL	<input type="checkbox"/>	CAM	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>

COMMENTS: 1)DAC Values: Alpha = 1.0 X 10E-10 uCi/ml & Beta = 1.0 X 10E-7 uCi/ml
2)Posting Levels: Alpha = 1.0 X 10E-11 uCi/ml & Beta = 3.0 X 10E-8 uCi/ml

17. Radiological Control Hold Points:

If removable contamination levels > 100,000 dpm/cm2, stop work for decontamination & evaluation

18. RCT Coverage:

START OF JOB	<input type="checkbox"/>	CONTINUOUS	<input type="checkbox"/>	INTERMITTENT	<input checked="" type="checkbox"/>
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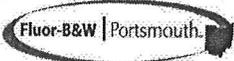
COMMENTS: Contact RADCON prior to entering "Soil Contamination Areas"

19. Special Instructions:

1)No kneeling, sitting, leaning, or contact with potentially contaminated surfaces or equipment
2)Company issued clothing is required to be worn when entering a "Contamination Area", "Airborne Radioactivity Area", and "High Contamination Area".
3)Personal cell phones not permitted in areas controlled for removable contamination

RADIOLOGICAL WORK PERMIT

1. RWP Information:		Start Date:	Expire Date:
RWP # <u>G2014-00025</u> Revision: <u>1</u>		3/13/2014	1/1/2015
Title: <u>X-705 Soil Contamination Areas</u>		<input checked="" type="checkbox"/> General	<input type="checkbox"/> RWP Extended See Section 13.
Facility: <u>X-705</u> Location: <u>Soil Contamination Areas</u>		<input type="checkbox"/> Job Specific	
2. Job Description:			
1. General entry, surveys, surveillances, and inspections. 2. RadCon approved maintenance. 3. Decontamination / housekeeping as necessary. 4. RadCon approved tasks.			
3. ALARA Job Review Required:			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		ALARA Review #: <u>N/A</u>	
4. Pre-Job Radiological Data:			
Airborne Levels: <u>< 1.0E-11</u> (α) <u>< 3.0E-08</u> (β/γ)		Radiation Levels (mrem/hr): <u>< 0.2</u> GA <u>< 0.2</u> Highest <input type="checkbox"/> N/A	Contamination Levels (dpm/100cm ²): <u>1000</u> (α) <u>1000</u> (β/γ)
5. Anticipated Radiological Postings: (check all that apply)			
<input type="checkbox"/> Contamination Area <input type="checkbox"/> High Contamination Area <input type="checkbox"/> Airborne Radioactivity Area <input checked="" type="checkbox"/> Other (Describe Below) <input type="checkbox"/> Radiation Area <input type="checkbox"/> High Radiation Area <input checked="" type="checkbox"/> Radionuclides Expected: <u>Tc-99, Th-230, Uranium</u>			
COMMENTS: <u>Other: Soil Contamination Area</u>			
6. Pre-Job Briefing Required:			
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (Mandatory for Job Specific RWPs)			
7. Training Requirements:			
RADWORKER II	<input checked="" type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>
COMMENTS: <u>None</u>			



RADIOLOGICAL WORK PERMIT

RWP No. G2014-00025 Revision: 1 Title: X-705 Soil Contamination Areas

Task: General Entry, Surveys, Inspections, Maintenance, Decontamination, And RadCon Approved Tasks 1 of 1

15. Personal Protective Equipment(PPE) : (check all that apply)

NONE	<input type="checkbox"/>					
ANTI-CONTAMINATION CLOTHING	<input checked="" type="checkbox"/>	COVERALLS	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>
	<input type="checkbox"/>	HOOD	<input type="checkbox"/>	Cloth/Pair: <input type="checkbox"/>	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>
	<input checked="" type="checkbox"/>	GLOVES	<input checked="" type="checkbox"/>	Rubber/Pair: <input type="checkbox"/>	Surgeon/Pair: <input checked="" type="checkbox"/> 2	Nitrile/Pair: <input type="checkbox"/> Other/Pair: <input type="checkbox"/>
	<input checked="" type="checkbox"/>	BOOTIES	<input checked="" type="checkbox"/>	Disposable/Pair: <input checked="" type="checkbox"/> 1	Other/Pair: <input type="checkbox"/>	
	<input checked="" type="checkbox"/>	SHOE COVERS	<input checked="" type="checkbox"/>	Rubber/Pair: <input checked="" type="checkbox"/> 1	Disposable/Pair: <input type="checkbox"/>	Other/Pair: <input type="checkbox"/>
	<input type="checkbox"/>	SLEEVETTES	<input type="checkbox"/>	LAB COAT	<input type="checkbox"/>	WELDER APRONS <input type="checkbox"/>
	<input type="checkbox"/>	FACE SHIELDS	<input type="checkbox"/>	SAFETY GLASSES (BETA)	<input type="checkbox"/>	OTHER (Describe Below) <input type="checkbox"/>
RESPIRATORY PROTECTION	<input checked="" type="checkbox"/>	NO RESPIRATOR	<input checked="" type="checkbox"/>	FULL FACE RESPIRATOR	<input type="checkbox"/>	PAPR <input type="checkbox"/>
	<input type="checkbox"/>	BUBBLE HOOD	<input type="checkbox"/>	AIRLINE TIGHT FITTING FACEPIECE	<input type="checkbox"/>	OTHER (Describe Below) <input type="checkbox"/>

COMMENTS: Disposable shoe covers may be substituted for rubber totes.

16. Air Monitoring:

AIR SAMPLING DEVICE	<input checked="" type="checkbox"/>	NONE	<input checked="" type="checkbox"/>	BZ PUMP	<input type="checkbox"/>	HI-VOL	<input type="checkbox"/>
	<input type="checkbox"/>	LO-VOL	<input type="checkbox"/>	CAM	<input type="checkbox"/>	OTHER (Describe Below)	<input type="checkbox"/>

COMMENTS: DAC Values: Alpha: 1E-10 uCi/ml Beta: 1E-07 uCi/ml
Posting Levels: Alpha: 1E-11 uCi/ml Beta: 3E-08 uCi/ml

17. Radiological Control Hold Points:

None

18. RCT Coverage:

START OF JOB	<input type="checkbox"/>	CONTINUOUS	<input type="checkbox"/>	INTERMITTENT	<input type="checkbox"/>
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COMMENTS: None

19. Special Instructions:

Personnel shall perform full body frisk with a ludlum 12 beta meter upon exiting area.
 "Company issued clothing required to be worn when entering a contamination area, airborne radioactivity area, high contamination area."
 Personal cell phones not permitted in areas controlled for removable contamination.