TABLE 5-1.3

MOSES LAKE MAINTENANCE FACILITY RIFS
EAST PORTION GROUNDWATER
POLYNUCLEAR AROMATIC HYDROCARBON RESULTS

Location						MW11	
Sample Identifier						0MW11-02803	
Sample Type						N	Q
Analyte	Method	MTCA Method Cleanup Criteria For Groundwater (ug/L)[a]	MTCA Method B Cleanup Criteria for Surface Water (ug/L)	Toxicity Equivalency Factor (TEF)	National Water Quality Criteria/WAC 201A Aquatic Water Quality Criteria (ug/L)[d]	Concentration (ug/L)	
Polynuclear Aromatic Hydrocarbons							
Naphthalene	EPA 8270C	5	NSA	NA	NSA	3.6	
2-Methylnaphthalene	EPA 8270C	NSA	NSA	NA	NSA	19	
1-Methylnaphthalene	EPA 8270C	NSA	NSA	NA	NSA	19	
Acenaphthylene	EPA 8270C	NSA	NSA	NA	NSA	0.36	
Acenaphthene	EPA 8270C	960 [b]	643	NA	NSA	2.0	
Fluorene	EPA 8270C	640 [b]	3,460	NA	NSA	3.7	
Phenanthrene	EPA 8270C	NA	NSA	NA	NSA	7.4	
Anthracene	EPA 8270C	2,400 [b]	25,900	NA	NSA	0.46	
Fluoranthene	EPA 8270C	640 [b]	90.2	NA	NSA	0.14	
Pyrene	EPA 8270C	2,400 [b]	NSA	NA	NSA	0.65	
Benzo[a]anthracene[c]	EPA 8270C	0.1 / TEF*	NSA	0.100	NSA	0.019	
Chrysene[c]	EPA 8270C	0.1 / TEF*	NSA	0.010	NSA	0.071	
Benzo[b]fluoranthene[c]	EPA 8270C	0.1 / TEF*	NSA	0.100	NSA	0.0095	U
Benzo[k]fluoranthene[c]	EPA 8270C	0.1 / TEF*	NSA	0.140	NSA	0.0095	U
Benzo[a]pyrene[c]	EPA 8270C	0.1 / TEF*	NSA	1.000	NSA	0.0095	U
Indeno[1,2,3-cd]pyrene[c]	EPA 8270C	0.1 / TEF*	NSA	0.100	NSA	0.0095	U
Dibenz[a,h]anthracene[c]	EPA 8270C	0.1 / TEF*	NSA	0.400	NSA	0.0095	U
Benzo[g,h,i]perylene	EPA 8270C	NSA	NSA	NA	NSA	0.0095	U
Total TEF cPAH concentration	-		-	-		0.00261	

Note:
Q - Validated data qualifier.
N - Normal sample.
Dup - Duplicate sample.
U - indicates that the analyte was not detected above its practical quantitation limit (PQL).
NSA - No standard available.
NA - Not Applicable.
a - Chapter 173-340 WAC Method A Groundwater Cleanup Levels for potable water unless otherwise noted.
b - Chapter 173-340 WAC Method B Groundwater Cleanup Levels for potable water use.
c - Carcinogenic PAH
d - The most conservative of the National Water Quality Criteria (EPA, 2002) or Chapter 201A WAC Aquatic Water Quality Criteria is provided both chronic or acute values were considered.
* - The MTCA Method A Cleanup level for cPAHs is based the total toxicity equivalence of benzo[a]pyrene. The individual cPAHs are multiplied by their TEF, and the values summed to determine the total cPAH based on their TEF. (WAC 173-340-708).

CITY OF MOSES LAKE MAINTENANCE FACILITY RIFS
EAST PORTION GROUNDWATER
VOLATILE ORGANIC COMPOUND RESULTS (DETECTS ONLY)

Location					MW-04		MW-05		MW-08		MW-10		MW-11	
Sample Identifier					0MW04-031703		0MW05-031703		0MW08-031703		0MW10-031703		0MW11-032803	
Sample Type					N	Q	N	Q	N	Q	N	Q	N	Q
Analyte	Analytical Method	MTCA Cleanup Criteria For Groundwater (ug/L)[a]	MTCA Method B Cleanup Criteria for Surface Water (ug/L)	National Water Quality Criteria/WAC 201A Aquatic Water Quality Criteria (ug/L)[c]	Concentration (ug/L)									
Volatile Organic Compounds														
Methyl t-Butyl Ether	EPA 8260B	20	NSA	NSA	0.23		0.20	U	0.20	U	0.20	U	0.31	
Chloroform	EPA 8260B	7.17[b]	283	NSA	0.41		0.20	U	0.36		0.66		1.4	
Bromodichloromethane	EPA 8260B	0.706[b]	27.9	NSA	0.20	U	0.20	U	0.20	U	0.45		1.1	
Dibromochloromethane	EPA 8260B	0.521[b]	2.06	NSA	0.20	U	0.20	U	0.20	U	0.27		0.49	
Bromoform	EPA 8260B	5.54[b]	2.19	NSA	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Isopropylbenzene	EPA 8260B	NSA	NSA	NSA	0.20	U	0.20	U	0.20		0.20	U	0.20	U
n-Propylbenzene	EPA 8260B	NSA	NSA	NSA	0.20	U	0.20	U	0.38		0.20	U	0.20	U
1,3,5-Trimetylbenzene	EPA 8260B	NSA	NSA	NSA	0.20	U	0.20	U	0.39		0.20	U	0.42	
1,2,5-Trimetylbenzene	EPA 8260B	NSA	NSA	NSA	0.20	U	0.20	U	0.52		0.20	U	1.4	
sec-Butylbenzene	EPA 8260B	NSA	NSA	NSA	0.20	U	0.69		0.27		0.20	U	0.20	U
n-Butylbenzene	EPA 8260B	NSA	NSA	NSA	0.20	U	0.35		0.2	U	0.20	U	0.20	U
1,2-Dibromoethane (EDB)	EPA 8011	0.01	NSA	NSA	0.0096	U	0.0095	U	0.0096	U	0.0095	U	0.0095	U

Note:
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U - indicates that the analyte was not detected above its practical quantitation limit (PQL).
NA - Not Applicable.
a - Chapter 173-340 WAC Method A Groundwater Cleanup Levels for potable water use unless otherwise noted.
b - Chapter 173-340 WAC Method B Groundwater Cleanup Levels for potable water use.
c - The most conservative of the National Water Quality Criteria (EPA, 2002) or Chapter 201A WAC Aquatic Water Quality Criteria is provided both chronic or acute values were considered.