

Official Draft Public Notice Version **September 19, 2016**

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Permit No. UT0000051

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

In compliance with provisions of the Utah *Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the "Act"),

KENNECOTT UTAH COPPER LLC

is hereby authorized to discharge from its facility located near Magna and in western Salt Lake County, Utah, with the outfalls located at the following:

<u>Outfall</u>		<u>Latitude</u>	<u>Longitude</u>	<u>To receiving waters named</u>
002	40° 44'30"	112° 05'15"	C-7 Ditch	
004	40° 44'06"	112° 11'49"	I-80 Culvert to Great Salt Lake	
007	40° 46'15"	112° 07'00"	C-7 Ditch	
008	40° 44'12"	112° 10'25"	Great Salt Lake	
009	40° 32'07"	112° 11'39"	Pine Canyon Creek, Tooele County	
010	40° 29'33"	112° 07'20"	Butterfield Creek	
011	40° 42'52"	112° 06'57"	Riter-Utah Salt Lake Canals	
012	40° 45'20"	112° 10'02"	Great Salt Lake	
104	40° 43'27"	112° 11'50"	Internal discharge, Hydrometallurgical Plant	
SW3	40° 42' 02"	112° 06'38"	Little Valley Wash	
SW4	40° 32'51"	112° 12'22"	Pine Canyon Creek, Tooele County	

in accordance with discharge points, effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on **Month, Year**

This permit and the authorization to discharge shall expire at midnight, **Month, Year**

Walter L. Baker, P.E.
Director

TABLE OF CONTENTS

Page No.

I	EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS	3
A.	Definitions	3
B.	Description of Discharge Points	7
C.	Narrative Standard	7
D.	Specific Limitations and Self-monitoring Requirements	8
E.	Biosolids Treatment and Disposal	25
F.	Storm Water Pollution Prevention Plan	33
II.	MONITORING, RECORDING AND REPORTING REQUIREMENTS	
A.	Representative Sampling	45
B.	Monitoring Procedures	45
C.	Penalties for Tampering	45
D.	Reporting of Monitoring Results	45
E.	Compliance Schedules	45
F.	Additional Monitoring by the Permittee	45
G.	Records Contents	46
H.	Retention of Records	46
I.	Twenty-four Hour Notice of Noncompliance Reporting	46
J.	Other Noncompliance Reporting	47
K.	Inspection and Entry	47
III.	COMPLIANCE RESPONSIBILITIES	48
A.	Duty to Comply	48
B.	Penalties for Violations of Permit Conditions	48
C.	Need to Halt or Reduce Activity not a Defense	48
D.	Duty to Mitigate	48
E.	Proper Operation and Maintenance	48
F.	Removed Substances	48
G.	Bypass of Treatment Facilities	48
H.	Upset Conditions	49
I.	Toxic Pollutants	50
J.	Changes in Discharge of Toxic Substances	50
K.	Industrial Pretreatment	51
IV.	GENERAL REQUIREMENTS	52
A.	Planned Changes	52
B.	Anticipated Noncompliance	52
C.	Permit Actions	52
D.	Duty to Reapply	52
E.	Duty to Provide Information	52
F.	Other Information	52
G.	Signatory Requirements	52
H.	Penalties for Falsification of Reports	53
I.	Availability of Reports	53
J.	Oil and Hazardous Substance Liability	54
K.	Property Rights	54
L.	Severability	54
M.	Transfers	54
N.	State Laws	54
O.	Water Quality-Reopener Provision	54
P.	Toxicity Limitation -Reopener Provision	55

I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Definitions

1. The "30-day (and monthly) average" is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.
2. The "7-day (and weekly) average" is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains the Saturday.
3. "Daily Maximum" ("Daily Max.") is the maximum value allowable in any single sample or instantaneous measurement.
4. "Composite samples" shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the composite sample period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:
 - a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;
 - b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
 - c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,
 - d. Continuous collection of sample, with sample collection rate proportional to flow rate.

5. A "grab" sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.
6. An "instantaneous" measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.
7. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
8. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
9. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
10. "Director" means Director of the Utah Division of Water Quality.
11. "EPA" means the United States Environmental Protection Agency.
12. "Acute toxicity" occurs when 50 percent or more mortality is observed for either test species at any effluent concentration.
13. "Chronic toxicity" occurs when the survival, growth, or reproduction for the test species exposed to a specific percent effluent dilution is significantly less (at the 95 percent confidence level) than the survival, growth, or reproduction of the control specimens.
14. "Act" means the "*Utah Water Quality Act*".
15. "Best Management Practices" ("*BMPs*") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. *BMPs* also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
16. "*CWA*" means *The Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.

17. "Flow-weighted composite sample" means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.
18. "Illicit discharge" means any discharge to a municipal separate storm sewer that is not composed entirely of storm water except discharges pursuant to a *UPDES* permit (other than the *UPDES* permit for discharges from the municipal separate storm sewer) and discharges from firefighting activities, fire hydrant flushings, potable water sources including waterline flushings, uncontaminated ground water (including dewatering ground water infiltration), foundation or footing drains where flows are not contaminated with process materials such as solvents, springs, riparian habitats, wetlands, irrigation water, exterior building wash down where there are no chemical or abrasive additives, pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred and where detergents are not used, and air conditioning condensate.
19. "Landfill" means an area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well, or waste pile.
20. "Land application unit" means an area where wastes are applied onto or incorporated into the soil surface (excluding manure spreading operations) for treatment or disposal.
21. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agriculture storm water runoff.
22. "Runoff coefficient" means the fraction of total rainfall that will appear at a conveyance as runoff.
23. "Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under *Section 101(14)* of *CERCLA*; any chemical the facility is required to report pursuant to *EPCRA Section 313*; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.
24. "Significant spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under *Section 311* of the *Clean Water*

Act (see 40 CFR 110.10 and 40 CFR 117.21) or *Section 102 of CERCLA* (see 40 CFR 302.4).

25. "Storm water" means storm water runoff, snow melt runoff, and surface runoff and drainage.
26. "Time-weighted composite" means a composite sample consisting of a mixture of equal volume aliquots collected at a constant time interval.
27. "Waste pile" means any noncontainerized accumulation of solid, nonflowing waste that is used for treatment or storage.
28. "10-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable reoccurrence interval of once in 10 years. This information is available in *Weather Bureau Technical Paper No. 40, May 1961* and *NOAA Atlas 2, 1973* for the 11 Western States, and may be obtained from the National Climatic Center of the Environmental Data Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.
29. "Section 313 water priority chemical" means a chemical or chemical categories that:
 - a. Are listed at 40 CFR 372.65 pursuant to *Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA)* (also known as *Title III of the Superfund Amendments and Reauthorization Act (SARA)* of 1986);
 - b. Are present at or above threshold levels at a facility subject to *EPCRA Section 313* reporting requirements; and
 - c. Meet at least one of the following criteria:
 - i. Are listed in *Appendix D of 40 CFR Part 122* on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table V (certain toxic pollutants and hazardous substances);
 - ii. Are listed as a hazardous substance pursuant to *Section 311(b)(2)(A)* of the *CWA* at 40 CFR 116.4; or
 - iii. Are pollutants for which EPA has published acute or chronic water quality criteria. See *Appendix III* of this permit. This appendix was revised based on final rulemaking EPA published in the *Federal Register* November 30, 1994.

B. Description Of Discharge Points

The authorization to discharge provided under this permit is limited to those outfalls specifically designated below as discharge locations and other storm water discharges (Part I.E.). Discharges at any location not authorized under a UPDES permit is a violation of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

Discharge Points		
Outfall Number	Location of Discharge Points	Receiving Waters
002	Latitude 40° 44' 30" Longitude 112° 05' 15"	Tailings pond outfall to C-7 ditch
004	Latitude 40° 44' 06" Longitude 112° 11' 49"	I-80 Culvert to Great Salt Lake
007	Latitude 40°46'15" Longitude 112°07'00"	Toe Ditch Pond to C-7 ditch
008	Latitude 40°44'12" Longitude 112°10'25"	Artesian well water, refinery storm water to the Great Salt Lake
009	Latitude 40°32'07" Longitude 112°11'39"	Pine Canyon Tunnel, Tooele County
010	Latitude 40°29'33" Longitude 112°07'20"	Butterfield Tunnel to Butterfield Creek
011	Latitude 40°42'52" Longitude 112°06'57"	Adamson Springs to the Ritter-Utah Salt Lake Canals
012	Latitude 40° 45' 20" Longitude 112° 10' 02"	Tailings discharge to the Great Salt Lake
104	Latitude 40°43'27" Longitude 112°11'50"	Internal discharge from Hydrometallurgical Plant
SW3	Latitude 40°42' 02" Longitude 112°06'38"	Little Valley Wash
SW4	Latitude 40°32'51" Longitude 112°12'22"	Pine Canyon Creek, Tooele County

C. Narrative Standard

It shall be unlawful, and a violation of this permit, for the permittee to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste, or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures.

D. Specific Limitations and Self-monitoring Requirements

1. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from **Outfalls 002 and 007**. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Limitations, Self-Monitoring and Reporting Requirements Outfall 002 a/						
Parameter	Maximum Monthly Average	Daily Maximum	Daily Minimum	Frequency	Sample Type	Units
Flow	50.0	NA	NA	Continuous	Recorder	MGD
TSS	20	30	NA	3 X Weekly	Composite	mg/L
Total As	0.181	0.378	NA	3 X Weekly	Composite	mg/L
Total Cd	0.00079	0.0097	NA	3 X Weekly	Composite	mg/L
Total Cu	0.036	0.057	NA	3 X Weekly	Composite	mg/L
Total Pb	0.0223	0.532	NA	3 X Weekly	Composite	mg/L
Total Hg	0.000013	0.0027	NA	3 X Weekly	Composite	mg/L
Total Zn	0.224	0.431	NA	3 X Weekly	Composite	mg/L
Total Se b/c/	0.012	NA	NA	Monthly	Grab	mg/L
Total Cyanide	0.0056	0.0241	NA	Monthly	Composite	mg/L
Total Dissolved Solids (TDS)	NA	NA	NA	Monthly	Composite	mg/L
Oil and Grease	NA	10	NA	d/	Grab	mg/L
pH	NA	9.0	6.5	3 X Weekly	Grab	SU

Effluent Limitation, Self-Monitoring and Reporting Requirements Outfall 007 a/						
Parameter	Maximum Monthly Average	Daily Maximum	Daily Minimum	Frequency	Sample Type	Units
Flow	15.0	NA	NA	Continuous	Recorder	MGD
TSS	20	30	NA	3 X Weekly	Composite	mg/L
Total As	0.25	0.465	NA	3 X Weekly	Composite	mg/L
Total Cd	0.00089	0.0119	NA	3 X Weekly	Composite	mg/L
Total Cu	0.0492	0.0692	NA	3 X Weekly	Composite	mg/L
Total Pb	0.031	0.660	NA	3 X Weekly	Composite	mg/L
Total Hg	0.000015	0.002	NA	3 X Weekly	Composite	mg/L
Total Zn	0.224	0.675	NA	3 X Weekly	Composite	mg/L
Total Se b/c/	0.012	NA	NA	Monthly	Grab	mg/L
Total Cyanide	0.0065	0.0291	NA	Monthly	Composite	mg/L
Total Dissolved Solids (TDS)	NA	NA	NA	Monthly	Composite	mg/L
Oil and Grease	NA	10	NA	d/	Grab	mg/L
pH	NA	9.0	6.5	3 X Weekly	Grab	SU

There shall be no or floating solids or visible foam in other than trace amounts.

See Definitions, *Part I.A* for definition of terms.

N.A. - Not Applicable.

a/ Samples taken in compliance with the monitoring requirements specified above shall be taken at the outfall to the C-7 ditch prior to mixing with the receiving water.

b/ 0.012 mg/L is consistent with the requirements of the U.S. Army Corps of Engineers 404 Permit #199450301 and shall not be exceeded at the Lower Lee Creek location north of Interstate 80 during a discharge from outfalls 002 and 007.

c/ Selenium will be analyzed by EPA Method 200.8 or an alternative method approved by the State of Utah Bureau of Laboratory Improvement.

d/ Oil and grease will be sampled when sheen is observed.

2. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from **Outfall 004**. Discharges from outfall 004 are not

limited on flow, but will be monitored and reported if discharges occur. Such discharges shall be monitored quarterly by the permittee for the same parameters as specified in the permit for Outfall 008.

3. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from **Outfall 008**. The discharge is monitored quarterly for the same parameters as Outfall 012 except for cyanide and biomonitoring. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Limitation, Self-Monitoring and Reporting Requirements Outfall 008						
Parameter	Maximum Monthly Average	Daily Maximum	Daily Minimum	Frequency	Sample Type	Units
Flow	5.5	NA	NA	Quarterly	Measured	MGD
TSS	20	30	NA	Quarterly	Grab	mg/L
Total As	0.25	0.50	NA	Quarterly	Grab	mg/L
Total Cd	0.05	0.10	NA	Quarterly	Grab	mg/L
Total Cu	0.15	0.30	NA	Quarterly	Grab	mg/L
Total Pb	0.30	0.60	NA	Quarterly	Grab	mg/L
Total Hg	0.001	0.002	NA	Quarterly	Grab	mg/L
Total Zn	0.224	0.50	NA	Quarterly	Grab	mg/L
Selenium	NA	0.054	NA	Quarterly	Grab	mg/L
Total Dissolved Solids (TDS)	NA	NA	NA	Quarterly	Grab	mg/L
Oil and Grease	NA	10	NA	a/	Grab	mg/L
pH	NA	9.0	6.5	Quarterly	Grab	SU

There shall be no floating solids or visible foam in other than trace amounts.

N.A. - Not Applicable.

a/ See Definitions, *Part I.A* for definition of terms

b/ Selenium will be analyzed by EPA Method 200.8 or an alternative method approved by the State of Utah Bureau of Laboratory Improvement.

c/ Oil and grease will be sampled when sheen is observed.

4. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from **Outfall 009**. Such discharges shall be limited and monitored by the permittee as specified:

Effluent Limitations, Self-Monitoring and Reporting Requirements Outfall 009 a/						
Parameter	Maximum Monthly Average	Daily Maximum	Daily Minimum	Frequency	Sample Type	Units
Flow	0.086	NA	NA	2 X Yearly	Measured	MGD
TSS	20	30	NA	2 X Yearly	Grab	mg/L
Total As	0.25	0.50	NA	2 X Yearly	Grab	mg/L
Total Cd	0.05	0.10	NA	2 X Yearly	Grab	mg/L
Total Cu	0.15	0.30	NA	2 X Yearly	Grab	mg/L
Total Pb	0.30	0.60	NA	2 X Yearly	Grab	mg/L
Total Hg	0.001	0.002	NA	2 X Yearly	Grab	mg/L
Total Zn	0.224	0.50	NA	2 X Yearly	Grab	mg/L
Selenium b/	0.012	NA	NA	2 X Yearly	Grab	mg/L
Total Dissolved Solids (TDS)	NA	NA	NA	2 X Yearly	Grab	mg/L
Oil and Grease	NA	10	NA	a/	Grab	mg/L
pH	NA	9.0	6.5	2 X Yearly	Grab	SU

See Definitions, *Part I.A* for definition of terms.

- a/ Oil and grease will be sampled when sheen is observed.
 - b/ Selenium will be analyzed by EPA Method 200.8 or an alternative method approved by the State of Utah Bureau of Laboratory Improvement.
5. During the period beginning immediately and lasting through the duration of this permit, the permittee is authorized to discharge from **Outfall 010 (Butterfield Tunnel)**. The discharge shall be limited and monitored by the permittee as specified:

Effluent Limitations, Self-Monitoring and Reporting Requirements Outfall 010						
Parameter	Maximum Monthly Average	Daily Maximum	Daily Minimum	Frequency	Sample Type	Units
Flow	0.65	NA	NA	Quarterly	Measured	MGD
TSS	20	30	NA	Quarterly	Grab	mg/L
Total As	NA	0.10	NA	Quarterly	Grab	mg/L
Total Cd	0.0013	0.0066	NA	Quarterly	Grab	mg/L
Total Cu	NA	0.038	NA	Quarterly	Grab	mg/L
Total Fe	NA	1.09	NA	Quarterly	Grab	mg/L
Total Pb	0.023	0.100	NA	Quarterly	Grab	mg/L
Total Hg	0.00002 a/	0.00023	NA	Quarterly	Grab	mg/L
Total Zn	0.323	0.493	NA	Quarterly	Grab	mg/L
Selenium b/	0.005	0.0184	NA	Quarterly	Grab	mg/L
Total Dissolved Solids (TDS)	NA	1200	NA	Quarterly	Grab	mg/L
Oil and Grease	NA	10	NA	c/	Grab	mg/L
pH	NA	9.0	6.5	Quarterly	Grab	SU

See definitions Part I.A. for definition of terms.

- a/ Kennecott will voluntarily analyze mercury using a low level mercury analysis.
 - b/ Selenium will be analyzed by EPA Method 200.8 or alternative method approved by the State of Utah Bureau of Laboratory Improvement.
 - c/ Oil and grease will be sampled when sheen is observed.
6. During the period beginning immediately and lasting through the duration of this permit, the permittee is authorized to discharge from **Outfall 011 (Adamson Spring)**. The discharge shall be limited and monitored by the permittee as specified:

Effluent Limitations, Self-Monitoring and Reporting Requirements Outfall 011						
Parameter	Maximum Monthly Average	Daily Maximum	Daily Minimum	Frequency	Sample Type	Units
Flow a/	3.9	NA	NA	Quarterly	Measured	MGD
TSS	20	30	NA	Quarterly	Grab	mg/L
Total As	NA	0.013	NA	Quarterly	Grab	mg/L
Total Cd	0.0013	0.021	NA	Quarterly	Grab	mg/L
Total Cu	0.102	0.119	NA	Quarterly	Grab	mg/L
Total Pb	0.0662	1.18	NA	Quarterly	Grab	mg/L
Total Zn	0.224	0.50	NA	Quarterly	Grab	mg/L
Selenium b/	0.0058	0.013	NA	Quarterly	Grab	mg/L
Oil and Grease	NA	10	NA	c/	Grab	mg/L
pH	NA	9.0	6.5	Quarterly	Grab	SU

See definitions Part I.A. for definition of terms.

NA – Not Applicable

- a/ For intermittent discharges, the duration of the discharge shall be reported.
 - b/ Selenium will be analyzed by EPA Method 200.8 or alternative method approved by the State of Utah Bureau of Laboratory Improvement.
 - c/ Oil and grease will be sampled when sheen is observed.
7. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from **Outfall 012**. Such discharges shall be limited and monitored by the permittee as specified:

Effluent Limitations, Self-Monitoring and Reporting Requirements Outfall 012							
Parameter	Maximum Monthly Average	Daily Maximum	Daily Minimum	Annual Max	Frequency	Sample Type	Units
Flow	NA	NA	NA	6468	Continuous	Recorder	MG b/
TSS	20	30	NA	NA	Daily	Composite	mg/L
Total As	0.25	0.50	NA	NA	Daily	Composite	mg/L
Total Cd	0.05	0.10	NA	NA	Daily	Composite	mg/L
Total Cu	0.15	0.30	NA	NA	Daily	Composite	mg/L
Total Pb	0.30	0.60	NA	NA	Daily	Composite	mg/L
Total Hg e/	0.001	0.002	NA	NA	Monthly	Composite	mg/L
Total Zn	0.224	0.50	NA	NA	Daily	Composite	mg/L
Total Se c/	NA	0.054	NA	NA	Daily	Composite	mg/L
Total Se, load	NA	NA	NA	900	Monthly	Calculated	Kg
Total Cyanide	0.1	0.2	NA	NA	Monthly	Composite	mg/L
Selenium	NA	NA	NA	NA	Annually	See Section I.D.10.	
TDS	NA	NA	NA	NA	Monthly	Composite	mg/L
Oil and Grease	NA	10	NA	NA	d/	Grab	mg/L
pH	NA	9.0	6.5	NA	Daily	Grab	SU
WET Acute Biomonitoring	NA	LC ₅₀ > 100% Effluent	NA	NA	Quarterly	Composite	NA
WET Chronic Biomonitoring	NA	TU _c ≤ 1.6 /f	NA	NA	Quarterly	Composite	NA

There shall be no untreated sanitary wastewater discharged into the tailings impoundment.

There shall be no floating solids or visible foam in other than trace amounts.

N.A. - Not Applicable.

See Definitions, *Part I.A* for definition of terms.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the outfall to the Great Salt Lake prior to mixing with the receiving water.

a/ Annual Discharge will be limited annually to 6468 Million Gallons a year (19,850 acre feet/year).

- b/ Million Gallons
 - c/ Selenium in effluent will be analyzed by EPA Method 200.8 or alternative method approved by the State of Utah Bureau of Laboratory Improvement.
 - d/ Oil and grease will be sampled when sheen is observed.
 - e/ The mercury analytical method must be EPA Method 1631 used on grab samples collected from the tailings impoundment barge
 - f/ TUC is calculated by dividing the receiving water effluent concentration determined in accordance with R317-2-5 by the chronic test IC25. The TUC is an indicator and an exceedance is not used for determining compliance.
8. Effective immediately the permittee is authorized to discharge from **Outfall 104 (Hydrometallurgical plant)**. The discharge lbs/day shall be limited and monitored by the permittee as specified below:

Effluent Limitations, Self-Monitoring and Reporting Requirements Outfall 104					
Parameter	Discharge Limitations a/		Monitoring Requirements		Units
	Maximum Monthly Average	Daily Maximum	Frequency	Sample Type	
Flow	NA	NA	Continuous	Recorder	MGD
TSS	237	296	Weekly	Composite	lb/day
Total As	11.3	27.4	Weekly	Composite	lb/day
Total Cd	1.57	3.93	Weekly	Composite	lb/day
Total Cu	12.1	25.3	Weekly	Composite	lb/day
Total Pb	2.56	5.51	Weekly	Composite	lb/day
Total Zn	8.26	20.1	Weekly	Composite	lb/day

a/ See definitions Part I.A. for definition of terms

Except as provided for in Part I.D.11.b of the permit, there shall be no discharge of process wastewater to navigable water from the active copper dump leach operations.

9. Joint Discharge Area Transitional Waters Monitoring Program:

Kennecott is required to annually sample eight (8) bird eggs, if available, but not to exceed 20% of available eggs, during the nesting season, April 15 through June 30, for the current permit cycle. The eggs will be collected from bird nests in the joint Jordan Valley Outfall 001 and Kennecott Outfall 012 affected outfall area. The

geometric mean selenium concentration of at least 5 eggs from a single season will be compared to the tissue based selenium water quality standard of 12.5 mg/kg dry weight for Gilbert Bay of Great Salt Lake to demonstrate compliance with the Narrative Standards in the Class 5E Transitional Waters affected by the discharge. Kennecott must notify the Director within 7 business days of becoming aware of any egg concentrations that exceed 9.8 mg/kg. In addition, total mercury concentrations in the egg tissue samples must also be evaluated and reported.

Kennecott will conduct annual bird surveys approximately every two weeks between April 15 and June 30 (four times per season) to document bird abundance, diversity, and use of the Outfall 012 mud flat habitat, particularly for evidence of feeding and nesting using methodology approved by the Director. This data will be submitted in the Annual Report.

Kennecott is required to annually collect co-located macroinvertebrate, water and sediment samples once between April 15 and June 30 and as close in time as practical to the bird egg collection. The requirement to sample and analyze sediment may be excluded if the sampling plan is modified and subsequently approved by the Director. These samples will be analyzed for selenium, biota and sediment will also be analyzed for total mercury, water samples will be analyzed for methyl and total mercury and total dissolved solids or salinity. The co-located macroinvertebrates, sediment and water samples will be collected at up to six (6) evenly spaced locations along the discharge watercourse from the discharge point to the water's edge from where Outfall 012 enters the standing waters of Great Salt Lake. This monitoring will be consistent with the February, 2011 Field Sampling Plan Outfall 001 at Great Salt Lake, Southwest Groundwater Treatment Plant unless modifications are approved in writing by the Director.

Kennecott is required to biannually collect co-located brine shrimp and water samples twice per year from the open waters of Gilbert Bay in the vicinity of the outfall. Sample collection is constrained by brine shrimp dynamics in the sampling area as brine shrimp may not always be present when sampling is attempted. The intent is to collect brine shrimp samples as close as available to where the effluent waters enter Gilbert Bay between April 15 and June 30 and in October. The water sample will be analyzed for total and methyl mercury and selenium. The brine shrimp sample will be analyzed for total mercury and selenium. The open water monitoring will be consistent with the methods described in the 2015 Bi-annual Sampling Results prepared for Jordan Valley Water Conservancy District by CH2M unless modifications are approved in writing by the Director.

DWQ strongly recommends that Kennecott coordinate with other facilities that discharge in the same delta to avoid needless duplication and further impact to avian wildlife in the delta area. Other monitoring requirements may be shared if appropriate. The Director shall be notified as soon as possible, but no later than April 1, if the efforts to coordinate monitoring with other dischargers to the delta area are

unsuccessful. The detailed field and laboratory data, analysis and a summary of the results from the bird surveys, egg samples and co-located water, sediment and macroinvertebrates monitoring must be submitted to the DWQ by February 1, or another agreed upon date, following the end of the calendar year for which the results were obtained as a part of the Annual Project Operating Report.

10. Implementation of the 12.5 mg/kg Se Tissue Based Standard:

Kennecott is subject to the following actions when the annual geometric mean dry weight concentrations outlined below exist in bird eggs (with a minimum sample size of five eggs) collected as part of the approved Joint Discharge Area Transitional Waters Monitoring Program:

9.8 to 12.4 mg/kg Se and above: Kennecott will prepare and if necessary, implement a plan to decrease bird exposures to Se from the effluent unless Kennecott can demonstrate to the Director's satisfaction that the discharge is not the cause of the increasing Se concentrations in eggs. The plan, including an implementation schedule, must be submitted to the Director within 180 days of notice that this condition exists.

12.5 mg/kg Se and above: The reopener provision for this permit will be exercised and Kennecott will be subject to additional Se reductions unless Kennecott can demonstrate to the Director's satisfaction that the discharge is not the cause of the Se exceedances in eggs. If these waters are determined to be impaired, Kennecott may be subject to additional Se reductions under the TMDL process.

11. Storm Exemptions

a. If, as a result of precipitation or snowmelt Outfalls 002, 007 and/or 012 has an overflow or excess discharge of effluent which does not meet the limitations contained in Part I.D.1 and 7, pursuant to 40 CFR 440.131(b), Outfalls 002 and/or 012 may qualify for an exemption from such limitations if the permittee notifies the Director of the event in writing within thirty days of the event and the following conditions are met:

i. The facility is designed, constructed and maintained to contain 6053 acre feet at the North expansion impoundment. This is the volume which would be generated by the permittee in a 24-hour period without an increase in volume from precipitation plus the maximum volume of wastewater resulting from a 10-year, 24-hour precipitation event. The Facility must be capable of storing the above volumes or be capable of treating the maximum flow associated with these volumes.

- ii. The permittee takes all reasonable steps to maintain treatment of the waste water such as adding lime to maintain pH in the range of 6.5 to 9.0 in the effluent and minimizes the amount of overflow such as not discharging leach water to the tailings pond except for storm runoff at the mine exceeding the 10 year 24-hour storm volume and the conditions of Part I.D.11.b.
 - iii. The discharge is analyzed for the parameters listed in Part I.D.1.
 - iv. The discharge is reported pursuant to Part II.I.1-4 and Part II.D.
 - v. The storm exemption is designed to provide an affirmative defense to an enforcement action. Therefore, the permittee has the burden of demonstrating to the Director that the above conditions have been met.
- b. If, as a result of precipitation or snowmelt, other areas of the mine operations have an overflow or discharge which does not meet the limitations established pursuant to 40 CFR 440.131(b), as deemed applicable, the permittee may qualify for an exemption from such limitations with respect to such discharge if the permittee notifies the Director of the event in writing within thirty days of the event and the following conditions are met:
- i. The facility is designed, constructed, and maintained to contain the maximum volume of waste water stored by the facility during normal operating conditions (without an increase in volume from precipitation) plus the maximum volume of waste water resulting from a 10-year, 24-hour precipitation event. In computing the maximum volume of waste water which would result from a 10-year, 24-hour precipitation event, the permittee must include the volume which would result from all areas contributing runoff to the facility, i.e., all runoff that is not diverted from the area, or process subject to zero discharge, and other runoff that is allowed to commingle with the influent to the treatment system.
 - ii. The permittee takes all reasonable steps to minimize the overflow or excess discharge such as containment and reuse where practical.
 - iii. There is no discharge of leach water to Bingham Creek or the Jordan River.
 - iv. The permittee complies with the notification requirements of the permit. The storm exemption is designed to provide an affirmative

defense to an enforcement action. Therefore, the operator has the burden of demonstrating to the appropriate authority that the above conditions have been met.

12. Whole Effluent Toxicity (WET) Testing

a. Acute Toxicity.

Effective immediately, and lasting through the life of this permit, there shall be no acute toxicity for *Ceriodaphnia dubia* in outfall 002 discharge, and no acute toxicity for *Cyprinodon variegatus* (sheepshead minnow) at outfalls 007 or 012 discharge as defined in *Part D.13* and determined by test procedures described below.

Effective immediately, the permittee will sample monthly the calcium concentration of the 012 outfall. If the calcium concentration drops below 350 mg/L, a 96-hour acute toxicity test using *Mysidopsis bahia* (mysid shrimp) will be conducted to determine the appropriateness of this species for the 012 outfall.

Starting on the effective date of this permit, when the maximum individual weekly average flow for outfall 002 is greater than 10 MGD, the permittee shall monthly, conduct acute static replacement toxicity tests on composite samples of the final effluent. The samples shall be collected at outfall 002. Sampling is only required quarterly if the quarterly average flow is less than 10 MGD and not required if the quarterly average flow has not exceeded 1 MGD. The permittee will also conduct acute static replacement toxicity tests on composite samples of the final effluent on a quarterly basis for outfall 012. Sampling is not required if the quarterly average flow has not exceeded 1 MGD. A yearly spring time acute biomonitoring test using *Ceriodaphnia dubia* is also required for outfall 010. Acute biomonitoring testing using *Cyprinodon variegatus* (sheepshead minnow) will be required at outfall 007 if the quarterly average flow has exceeded 1 MGD. Sampling is not required if the quarterly average flow has not exceeded 1 MGD.

The monitoring frequency for acute tests shall be as specified in the previous paragraph unless a sample is found to be acutely toxic during a routine test. If that occurs, the monitoring frequency shall become weekly (See *Part I.D.12.a, Accelerated Testing*). Samples shall be collected on a two day progression; i.e., if the first sample is on a Monday, during the next sampling period, the sampling shall begin on a Wednesday, etc. In the event of an acute toxicity test failure, the Permittee shall still be in compliance with the permit, as long as the Permittee is complying with the requirements of *Part D.13* of this permit.

The replacement static acute toxicity tests shall be conducted in general accordance with the procedures set out in the latest revision of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms. Fourth Edition. August 1993, EPA/600/4-90/027F* as per 40 CFR 136.3(a) TABLE IA-LIST OF APPROVED BIOLOGICAL METHODS, and the *Region VIII EPA NPDES Acute Test Conditions - Static Renewal Whole Effluent Toxicity Test (August, 1997)*. In the case of conflicts, the Region VIII procedures will prevail. The permittee shall conduct the 96-hour static replacement toxicity test for outfall 012 using *Cyprinodon variegatus*, and for outfalls 002, and 010 48-hour tests using *Ceriodaphnia dubia*.

Acute toxicity occurs when 50 percent or more mortality is observed for either species at any effluent concentration. Mortality in the control must simultaneously be 10 percent or less for the results to be considered valid. If more than 10 percent control mortality occurs, the test shall be repeated until satisfactory control mortality is achieved. A variance to this requirement may be granted by the Director if a mortality of less than 10 percent was observed in higher effluent dilutions.

If the permit contains a total residual chlorine limitation greater than 0.20 mg/L, the permittee may request from the Director approval to dechlorinate the sample, or collect the sample prior to chlorination.

Quarterly test results shall be reported along with the Discharge Monitoring Report (DMR) submitted for the end of the reporting quarter, e.g., biomonitoring results for the calendar quarter ending March 31 shall be reported with the DMR due April 28, with the remaining biomonitoring reports submitted with DMRs due each July 28, October 28, and January 28. Monthly test results shall be reported along with the DMR submitted for that month. The format for the report shall be consistent with the latest revision of the *Region VIII Guidance for Acute Whole Effluent Reporting (August, 1997)* and shall include all chemical and physical data as specified.

If the results for one year of testing indicate no acute toxicity, the permittee may request a reduction in testing frequency. The Director may approve, partially approve, or deny the request based on results and other available information. If approval is given, the modification will take place without a public notice.

b. Whole Effluent Testing – Chronic Toxicity.

Chronic WET tests are considered an indicator for Class 5 waters (Great Salt Lake) because of uncertainties regarding the representativeness of the standard

test species for Great Salt Lake. The results of the acute duration portion of a chronic test are implemented as specified above, in Section ID.13.a. As an indicator, the chronic test results can demonstrate compliance with portions of the Narrative Standards (R317-2-7.2). However, the chronic WET test results alone do not demonstrate noncompliance with the Narrative Standards. As indicators, the chronic WET test results alone are not used for determining reasonable potential for toxicity or noncompliance with the permit. The Director may modify the chronic WET testing requirements including the cessation of chronic WET testing without a public notice, as warranted and appropriate.

The monitoring frequency for Chronic WET testing shall be quarterly for *Cryprinodon variegatus* (Sheepshead Minnow) at Outfall 012. Samples shall be collected on a two-day progression; i.e., if the first sample is on a Monday, during the next sampling period, sampling shall be on a Wednesday. If chronic toxicity is detected, the test shall be repeated in less than four weeks from the date the initial sample was taken. The need for any additional samples, and/or a Toxicity Reduction Evaluation (TRE), see Part ID.13-f, shall be determined by the Director. If the second test shows no chronic toxicity, routine monitoring shall be resumed.

The chronic toxicity tests shall be conducted in general accordance with the procedures set out in the latest revision of *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. Third Edition. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. EPA 821-R-02-014, and the Region VIII EPA NPDES Chronic Test Conditions - Static Renewal Whole Effluent Toxicity Test (August, 1997)*. A CO₂ atmosphere may be used (in conjunction with an unmodified test) in order to account for artificial pH drift, as previously demonstrated to and authorized by the Director.

Chronic toxicity occurs when, during a chronic toxicity test, the TUC is greater than 1.6. The TUC is calculated by dividing the effluent concentration of 100 percent by the 25% inhibition concentration (IC₂₅) calculated at a 95% confidence level on the basis of test organism survival and growth or survival and reproduction. Concentrations of 100 percent effluent only will be required, plus the control. If any of the acceptable control performance criteria are not met, the test shall be considered invalid.

Quarterly test results shall be reported along with the Discharge Monitoring Report (DMR) submitted for the end of the reporting calendar quarter (e.g., biomonitoring results for the calendar quarter ending March 31 shall be reported with the DMR due April 28, with the remaining biomonitoring reports submitted with DMRs due each July 28, October 28, and January 28). All test results shall be reported along with the DMR submitted for that reporting

period. The format for the report shall be consistent with the latest revision of the Region VIII Guidance for Chronic Whole Effluent Reporting (August, 1997) and shall include all the physical testing as specified.

If the results for a minimum of ten consecutive tests indicate no chronic toxicity, the permittee may request a reduction in testing frequency. The Director may approve, partially approve, or deny the request based on results and other available information. If approval is given, the modification will take place without a public notice.

c. Accelerated Testing.

When acute toxicity is indicated during routine biomonitoring as specified in this permit, the permittee shall notify the Director in writing within 5 days after becoming aware of the test result. The permittee shall perform an accelerated schedule of biomonitoring to establish whether a pattern of toxicity exists. Accelerated testing will begin within seven days after the permittee becomes aware of the test result. Accelerated testing shall be conducted as specified under *Part I.D.13.d, Pattern of Toxicity*. If the accelerated testing demonstrates no pattern of toxicity, routine monitoring shall be resumed.

d. Pattern of Toxicity.

A pattern of toxicity is defined by the results of a series of up to five biomonitoring tests pursuant to the accelerated testing requirements using 100 percent effluent on the species being tested, once every week for up to five consecutive weeks.

If two (2) consecutive tests (not including the scheduled quarterly or monthly test which triggered the search for a pattern of toxicity) do not result in acute toxicity, no further accelerated testing will be required and no pattern of toxicity will be found to exist. The permittee will provide written verification to the Director within 5 days, and resume routine monitoring.

A pattern of toxicity is established if one of the following occurs:

- i. If two (2) consecutive test results (not including the scheduled quarterly or monthly test which triggered the search for a pattern of toxicity) indicate acute toxicity, this constitutes an established pattern of toxicity.
- ii. If consecutive tests continue to yield differing results each time, the permittee will be required to conduct up to a maximum of five (5) acute tests (not including the scheduled quarterly or monthly test

which triggered the search for a pattern of toxicity). If three out of five test results indicate acute toxicity, this will constitute an established pattern of toxicity.

e. Preliminary Toxicity Investigation

When a pattern of toxicity is detected the permittee will notify the Director in writing within 5 days and begin an evaluation of the possible causes of the toxicity. The permittee will have 15 working days from demonstration of the pattern of toxicity to complete a Preliminary Toxicity Investigation (PTI) and submit a written report of the results to the Director. The PTI may include, but is not limited to, additional chemical and biological monitoring, examination of pretreatment program records, examination of discharge monitoring reports, a thorough review of the testing protocol, evaluation of treatment processes and chemical use, inspection of material storage and transfer areas to determine if a spill may have occurred, and similar procedures.

If the PTI identifies a probable toxicant and/or a probable source of toxicity, the permittee shall submit, as part of its final results, written notification of that effect to the Director. Within thirty days of completing the PTI the permittee shall submit for approval a control program to control effluent toxicity and shall proceed to implement such plan within seven days following approval. The control program, as submitted to or revised by the Director, may be incorporated into the permit.

If no probable explanation for toxicity is identified in the PTI, the permittee shall notify the Director as part of its final report, along with a schedule for conducting a Phase I Toxicity Reduction Evaluation (TRE) (See *Part I.D.13.f, Toxicity Reduction Evaluation*).

If toxicity spontaneously disappears during the PTI, the permittee shall submit written notification to that effect to the Director as part of the reporting requirements of paragraphs a and b of this section.

f. Toxicity Reduction Evaluation (TRE)

If toxicity is detected during the life of this permit and it is determined by the Director that a TRE is necessary, the permittee shall be so notified and shall initiate a TRE immediately thereafter. The purpose of the TRE will be to establish the cause of the toxicity, locate the source(s) of the toxicity, and control or provide treatment for the toxicity.

A TRE may include but is not limited to one, all, or a combination of the following:

Phase I - Toxicity Characterization

Phase II - Toxicity Identification Procedures

Phase III - Toxicity Control Procedures

Any other appropriate procedures for toxicity source elimination and control

If the TRE establishes that the toxicity cannot be immediately eliminated the permittee shall submit a proposed compliance plan to the Director. The plan shall include the proposed approach to control toxicity and a proposed compliance schedule for achieving control. If the approach and schedule are acceptable to the Director, this permit may be reopened and modified.

If the TRE shows that the toxicity is caused by a toxicant(s) that may be controlled with specific numerical limitations, the permittee may:

- i. Submit an alternative control program for compliance with the numerical requirements.
- ii. If necessary, provide a modified biomonitoring protocol which compensates for the pollutant(s) being controlled numerically.

If acceptable to the Director, this permit may be reopened and modified to incorporate any additional numerical limitations, a modified compliance schedule if judged necessary by the Director, and/or a modified biomonitoring protocol.

Failure to conduct an adequate TRE, or failure to submit a plan or program as described above, or the submittal of a plan or program judged inadequate by the Director, shall be considered a violation of this permit.

E. **Biosolids Requirements** Error! Bookmark not defined.

1. **Biosolids Treatment and Disposal.** The authorization to dispose of biosolids provided under this permit is limited to those biosolids produced from the treatment works owned and operated by the permittee. The treatment methods and disposal practices are designated below.
 - a. **Treatment**
 - (1) Biosolids are dewatered then transferred to a collocated landfill at the facility.
 - b. **Description of Biosolids Disposal Method**
 - (1) Biosolids may be disposed of in a landfill, or transferred to another facility for treatment/disposal.
 - c. **Changes in Treatment Systems and Disposal Practices.**
 - (1) Should the permittee change their disposal methods or the biosolids generation and handling processes of the plant, the permittee must notify the Director at least 30 days in advance if the process/method is specified in 40 CFR 503. This includes, but is not limited to, the permanent addition or removal of any biosolids treatment units (i.e., digesters, drying beds, belt presses, etc.) and/or any other change.
 - (2) Should the permittee change their disposal methods or the biosolids generation and handling processes of the plant, the permittee must notify the Director at least 180 days in advance if the process/method is not specified in 40 CFR 503. This includes, but is not limited to, the permanent addition or removal of any biosolids treatment units (i.e., digesters, drying beds, belt presses, etc.) and/or any other change.

For any biosolids that are land filled, the requirements in Section 2.12 of the latest version of the EPA Region VIII Biosolids Management Handbook must be followed.

 2. **Specific Limitations and Monitoring Requirements.** All biosolids generated by this facility to be sold or given away to the public shall meet the requirements of Part III.B.1, 2, 3 and 4 listed below
 - a. **Metals Limitations.** All biosolids sold or given away in a bag or similar container for application to lawns and home gardens must meet the metals limitations as described below. If these metals limitations are not met, the biosolids must be landfilled

Pollutant Limits, (40 CFR Part 503.13(b)) Dry Mass Basis				
Heavy Metals	Table 1	Table 2	Table 3	Table 4
	Ceiling Conc. Limits, (mg/kg)	CPLR ¹ , (mg/ha)	Pollutant Conc. Limits, (mg/kg)	APLR ² , (mg/ha-yr)
Total Arsenic	75	41	41	41
Total Cadmium	85	39	39	39
Total Copper	4300	1500	1500	1500
Total Lead	840	300	300	300
Total Mercury	57	17	17	17
Total Molybdenum	75	N/A	N/A	N/A
Total Nickel	420	420	420	420
Total Selenium	100	100	100	100
Total Zinc	7500	2800	2800	2800

- b. Pathogen Limitations. All biosolids sold or given away in a bag or a similar container for application to lawns and home gardens must meet the pathogen limitations for Class A. Land applied biosolids must meet the pathogen limitations for Class B as described below. If the pathogen limitations are not met, the biosolids must be landfilled.
- (1) Class A biosolids shall meet one of the pathogen measurement requirements in the following Pathogen Control Class table or shall meet the requirements for a Process to Further Reduce Pathogens as defined in *40 CFR Part 503.32(a) Sewage Sludge – Class A*.
 - (2) Class B biosolids shall meet the pathogen measurement requirements in the following Pathogen Control Class table or shall meet the requirements for a Process to Significantly Reduce Pathogens as defined in *40 CFR Part 503.32(b) Sewage Sludge – Class B*. In addition, the permittee shall comply with all applicable site restrictions listed below (*40 CFR Part 503.32, (b), (5)*):
 - (a) Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application.
 - (b) Food crops with harvested parts below the land surface shall not be harvested for 20 months after application if the biosolids remains on the land surface for four months or more prior to incorporation into the soil.

1 CPLR -- Cumulative Pollutant Loading Rate
2 APLR – Annual Pollutant Loading Rate

- (c) Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil.
- (d) Food crops, feed crops, and fiber crops shall not be harvested from the land for 30 days after application.
- (e) Animals shall not be allowed to graze on the land for 30 days after application.
- (f) Turf grown on land where biosolids is applied shall not be harvested for one year after application if the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- (g) Public access to land with a high potential for public exposure shall be restricted for one year after application.
- (h) Public access to land with a low potential for public exposure shall be restricted for 30 days after application.
- (i) The sludge or the application of the sludge shall not cause or contribute to the harm of a threatened or endangered species or result in the destruction or adverse modification of critical habitat of a threatened or endangered species after application.

Pathogen Control Class	
Class A	Class B
B Salmonella species –less than three (3) MPN ³ per four (4) grams total solids (or less than 1,000 fecal coliforms per gram total solids)	Fecal Coliforms –less than 2,000,000 colony forming units (CFU) per gram total solids
Enteric viruses –less than one (1) MPN (or plaque forming unit) per four (4) grams total solids	
Viable helminth ova –less than one (1) MPN per four (4) grams total solids	

(3) Vector Attraction Reduction Requirements.

- (a) The permittee will meet vector attraction reduction through use of one of the methods listed in 40 CFR 503.33. Kennecott is meeting the requirements through the following methods

³ MPN –Most Probable Number

- i) Kennecott dewateres the biosolids and bags them, then transfers them to the onsite landfill for disposal.

If the permittee intends to use another one of the alternatives, the Director and the EPA must be informed at least thirty (30) days prior to its use. This change may be made without additional public comment.

(4) Self-Monitoring Requirements.

- (a) At a minimum, upon the effective date of this permit, all chemical pollutants, pathogens and applicable vector attraction reduction requirements shall be monitored according to *40 CFR 503.16(1)(a)*.

Minimum Frequency of Monitoring (40 CFR Part 503.16, 503.26, and 503.46)		
Amount of Biosolids Disposed Per Year		Monitoring Frequency
Dry US Tons	Dry Metric Tons	Per Year or Batch
> 0 to < 320	> 0 to < 290	Once Per Year or Batch
> 320 to < 1650	> 290 to < 1,500	Once a Quarter or Four Times
> 1,650 to < 16,500	> 1,500 to < 15,000 ⁴	Bi-Monthly or Six Times
> 16,500	> 15,000	Monthly or Twelve Times

- (b) Sample collection, preservation and analysis shall be performed in a manner consistent with the requirements of *40 CRF 503* and/or other criteria specific to this permit. A metals analysis is to be performed using *Method SW 846* with *Method 3050* used for digestion. For the digestion procedure, an amount of biosolids equivalent to a dry weight of one gram shall be used. The methods are also described in the latest version of the *Region VIII Biosolids Management Handbook*.
- (c) The Director may request additional monitoring for specific pollutants derived from biosolids if the data shows a potential for concern.
- (d) After two (2) years of monitoring at the frequency specified, the permittee may request that the Director reduce the sampling frequency for the heavy metals. The frequency cannot be reduced to less than once per year for biosolids that are sold or given away to the public for any parameter. The frequency also cannot be reduced for any of the pathogen or vector attraction reduction requirements listed in this permit.

3. Management Practices of Biosolids

a. Biosolids Distribution Information

⁴ Permittee produces approximately 1200 pounds (<1DMT), therefore they only need to sample one time a year.

- (1) For biosolids that are sold or given away, an information sheet shall be provided to the person who receives the biosolids. The label or information sheet shall contain:
 - (a) The name and address of the person who prepared the biosolids for a sale or to be given away.
 - (b) A statement that prohibits the application of the biosolids to the land except in accordance with the instructions on the label or information sheet.

b. Biosolids Application Site Storage

- (1) For biosolids or material derived from biosolids that are stored in piles for one year or longer, measures shall be taken to ensure that erosion (whether by wind or water) does not occur. However, best management practices should also be used for piles used for biosolids treatment. If a treatment pile is considered to have caused a problem, best management practices could be added as a requirement in the next permit renewal

c. Land Application Practices

- (1) The permittee shall operate and maintain the land application site operations in accordance with the following requirements:
 - (a) The permittee shall provide to the Director and the EPA within 90 days of the effective date of this permit a land application plan.
 - (b) Application of biosolids shall be conducted in a manner that will not contaminate the groundwater or impair the use classification for that water underlying the sites.
 - (c) Application of biosolids shall be conducted in a manner that will not cause a violation of any receiving water quality standard from discharges of surface runoff from the land application sites. Biosolids shall not be applied to land 10 meters or less from waters of the United States (as defined in 40 CFR 122.2).
 - (d) No person shall apply biosolids for beneficial use to frozen, ice-covered, or snow-covered land where the slope of such land is greater than three percent and is less than or equal to six percent unless one of the following requirements is met:
 - i) there is 80 percent vegetative ground cover; or,

- ii) approval has been obtained based upon a plan demonstrating adequate runoff containment measures.
- (e) Application of biosolids is prohibited to frozen, ice-covered, or snow covered sites where the slope of the site exceeds six percent.
- (f) Agronomic Rate
 - i) Application of biosolids shall be conducted in a manner that does not exceed the agronomic rate for available nitrogen of the crops grown on the site. At a minimum, the permittee is required to follow the methods for calculating agronomic rate outlined in the latest version of the *Region VIII Biosolids Management Handbook* (other methods may be approved by the Director). The treatment plant shall provide written notification to the applier of the biosolids of the concentration of total nitrogen (as N on a dry weight basis) in the biosolids. Written permission from the Director is required to exceed the agronomic rate.
 - ii) The permittee may request the limits of *Part III, C, 6* be modified if different limits would be justified based on local conditions. The limits are required to be developed in cooperation with the local agricultural extension office or university.
 - iii) Deep soil monitoring for nitrate-nitrogen is required for all land application sites (does not apply to sites where biosolids are applied less than once every five years). A minimum of six samples for each 320 (or less) acre area is to be collected. These samples are to be collected down to either a 5 foot depth, or the confining layer, whichever is shallower (sample at 1 foot, 2 foot, 3 foot, 4 foot and 5 foot intervals). Each of these one-foot interval samples shall be analyzed for nitrate-nitrogen. In addition to the one-foot interval samples, a composite sample of the 5 foot intervals shall be taken, and analyzed for nitrate-nitrogen as well. Samples are required to be taken once every five years for non-irrigated sites that receive more than 18 inches of precipitation annually or for irrigated sites
- (g) Biosolids shall not be applied to any site area with standing surface water. If the annual high groundwater level is known or suspected to be within five feet of the surface, additional deep soil monitoring for nitrate-nitrogen as described in *Part III.C.(6),(c)*. is to be performed. At a minimum, this additional monitoring will involve a collection of more samples in the affected area and possibly more frequent sampling. The exact number of samples to be collected will be outlined in a deep soil monitoring plan to be submitted to the Director and the EPA within 90 days of the effective date of this permit. The plan is subject to approval by the Director.

- (h) The specified cover crop shall be planted during the next available planting season. If this does not occur, the permittee shall notify the Director in writing. Additional restrictions may be placed on the application of the biosolids on that site on a case-by-case basis to control nitrate movement. Deep soil monitoring may be increased under the discretion of the Director.
- (i) When weather and or soil conditions prevent adherence to the biosolids application procedure, biosolids shall not be applied on the site.
- (j) For biosolids that are sold or given away, an information sheet shall be provided to the person who receives the biosolids. The label or information sheet shall contain:
 - i) The name and address of the person who prepared the biosolids for sale or give away for application to the land.
 - ii) A statement that prohibits the application of the biosolids to the land except in accordance with the instructions on the label or information sheet.
 - iii) The annual whole biosolids application rate for the biosolids that do not cause the metals loading rates in Tables 1, 2, and 3 (*Part III.B.1.*) to be exceeded.
- (k) Biosolids subject to the cumulative pollutant loading rates in Table 2 (*Part III.B.1.*) shall not be applied to agricultural land, forest, a public contact site, or a reclamation site if any of the cumulative pollutant loading rates in Table 2 have been reached.
- (l) If the treatment plant applies the biosolids, it shall provide the owner or leaseholder of the land on which the biosolids are applied notice and necessary information to comply with the requirements in this permit.
- (m) The permittee shall inspect the application of the biosolids to active sites to prevent malfunctions and deterioration, operator errors and discharges, which may cause or lead to the release of biosolids to the environment or a threat to human health. The permittee must conduct these inspections often enough to identify problems in time to correct them before they harm human health or the environment. The permittee shall keep an inspection log or summary including at least the date and time of inspection, the printed name and the handwritten signature of the inspector, a notation of observations made and the date and nature of any repairs or corrective action.

4. Special Conditions on Biosolids Storage. Permanent storage of biosolids is prohibited. Biosolids shall not be temporarily stored for more than two (2) years. Written permission to store biosolids for more than two years must be obtained from the Director. Storage of biosolids for more than two years will be allowed only if it is determined that significant treatment is occurring.
5. Representative Sampling. Biosolids samples used to measure compliance with *Part III* of this Permit shall be collected at locations representative of the quality of biosolids generated at the treatment works and immediately prior to land application.
6. Reporting of Monitoring Results.
 - a. Biosolids. The permittee shall provide the results of all monitoring performed in accordance with *Part III.B*, and information on management practices, biosolids treatment, site restrictions and certifications shall be provided no later than February 19 of each year. Each report is for the previous calendar year. If no biosolids were sold or given away during the reporting period, "no biosolids were sold or given away" shall be reported. Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the *Signatory Requirements* (see *Part VII.G*), and submitted to the Utah Division of Water Quality by NetDMR⁵ or at the following:

Original to: Biosolids Coordinator
Utah Division of Water Quality
P. O. Box 144870
Salt Lake City Utah, 84114-4870
7. Additional Record Keeping Requirements Specific to Biosolids.
 - a. Unless otherwise required by the Director, **the permittee is not required to keep records** on compost products if the permittee prepared them from biosolids that meet the limits in Table 3 (*Part III.B.1*), the Class A pathogen requirements in *Part III.B.2* and the vector attraction reduction requirements in *Part III.B.3*. The Director may notify the permittee that additional record keeping is required if it is determined to be significant to protecting public health and the environment.
 - b. **The permittee is required** to keep the following information for at least 5 years:
 - (1) Concentration of each heavy metal in Table 3 (*Part III.B.1*).
 - (2) A description of how the pathogen reduction requirements in *Part III.B.2* were met.

⁵ Starting January 1, 2017 monitoring results must be submitted using NetDMR unless the permittee has successfully petitioned for an exception. Annual Biosolids Reports should also be submitted through this system.

- (3) A description of how the vector attraction reduction requirements in *Part III.B.3* were met.
- (4) A description of how the management practices in *Part III.C* were met (if necessary).
- (5) The following certification statement:

"I certify under the penalty of law, that the heavy metals requirements in *Part III.B.1*, the pathogen requirements in *Part III.B.2*, the vector attraction requirements in *Part III.B.3*, the management practices in *Part III.C*. This determination has been made under my direction and supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements, the vector attraction reduction requirements and the management practices have been met. I am aware that there are significant penalties for false certification including the possibility of imprisonment."

- c. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit and records of all data used to complete the application for this permit for the life of the permit. Data collected on site, copies of Biosolids Report forms, and a copy of this UPDES biosolids-only permit must be maintained on site during the duration of activity at the permitted location

F. Storm Water Pollution Prevention Plan.

It has been determined that the Permittee has a regulated storm water discharge as per *UAC R317.8*. Individual UPDES permit UT000051 covers discharges from industrial activities (Ore Mining & Dressing) and all discharges of storm water from Kennecott permitted outfalls, which includes provisions relevant to the development of a Storm Water Pollution Prevention Plan (SWPPP). All stormwater discharges associated with mine-related construction at Kennecott's operations are covered by its individual UPDES Permit (UT000051), including construction related activities. If construction activity discharges could impact an off-site MS4 permitted community, Kennecott shall obtain a separate construction Stormwater Permit (NOI) and associated SWPPP developed.

1. Deadlines for Plan Preparation and Compliance. The storm water pollution prevention plan from the previous permit, as required under *Part I.E.*, will remain in effect until the current plan is modified and implemented. The new plan shall be implemented within 90 days of issuance of this permit unless the Director gives written approval extending the implementation time for parts of the plan.

2. Signature and Plan Review.

- a. The plan shall be signed in accordance with *Part IV.G.* (Signatory Requirements), and be retained on site at the facility which generates the storm water discharge.
- b. The permittee shall make plans available upon request to the *Director*, or authorized representative.
- c. Required modifications. The *Director* may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this part. Such notification shall identify those provisions of the permit that are not being met by the plan and identify which provisions of the plan require modifications in order to meet the minimum requirements of this part. Within 30 days of such notification from the *Director* the permittee shall make the required changes to the plan and shall submit to the *Director* a written certification that the requested changes have been made.

3. Pollution Prevention Team. Each plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.

4. Description of Potential Pollutant Sources. Each plan shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or which may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. Each plan shall identify all activities (including all construction related activities) and significant materials which may potentially be significant pollutant sources. Each plan shall include, at a minimum:

a. Drainage.

- i. A site map indicating, an outline of the portions of the drainage area of each storm water outfall that are within the facility boundaries, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle and equipment maintenance and/or cleaning areas, loading/unloading

areas, locations used for the treatment, storage or disposal of wastes, liquid storage tanks, processing areas and storage areas.

- ii. For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants the permittee shall make a prediction of the direction of flow, and an identification of the types of pollutants which are likely to be present in storm water discharges associated with industrial activity. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced or discharged; the potential of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.
- b. Inventory of Exposed Materials. An inventory of the types of materials handled at the site that potentially may be exposed to precipitation and discharged to surface or groundwater. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years prior to the date of the issuance of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of three years prior to the date of the issuance of this permit and the present; the location and a description of existing structural and non-structural control measures for regulated activities, including all construction related activities, to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives. This description should also include areas with the potential for deposition activities. The description shall be updated whenever there is a significant change in the type or quantity of exposed materials or material management practices, which may affect the exposure of materials to storm water. Those updates will include any new exposures related to waste rock or overburden management.
 - c. Spills and Leaks. A list of significant spills and significant leaks of toxic or hazardous pollutants (if any) that have occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of three years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.
 - d. Sampling Data. A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility, including a summary of sampling data collected during the term of this permit.
 - e. Risk Identification and Summary of Potential Pollutant Sources. A narrative description of the potential pollutant sources from the following activities:

loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and on-site waste disposal practices. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g. biochemical oxygen demand, etc.) of concerns shall be identified.

5. Measures and Controls. Each facility covered by this permit shall develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls:

a. Good housekeeping. Good housekeeping requires the maintenance of areas which may contribute pollutants to storm water discharges in a clean, orderly manner. The pollution prevention plan should consider implementation of the following measures where applicable:

i. Establish a cleaning or maintenance program for all impervious areas of the facility where particulate matter, dust, or debris may accumulate, particularly areas of material loading/unloading, material storage and handling, and processing.

ii. Paved areas of vehicle traffic or material storage where vegetative or other stabilization methods are not practical. Institute sweeping programs in these areas as well.

iii. For unstabilized areas of the facility where sweeping is not practical, storm water management devices such as sediment traps, vegetative buffer strips, filter fabric fence, sediment filtering boom, gravel outlet protection or other equivalent measures, that effectively trap or remove sediment should be considered.

b. Source Controls. The permittee shall consider preventive measures to minimize the potential exposure of all significant materials (as described in Part I.E.4 of this section) to precipitation and storm water runoff. The permittee should consider in a narrative description the implementation of the following measures to reduce the exposure of all materials to storm water:

i. Relocate all materials, including raw materials, intermediate products, material handling equipment, obsolete equipment, and wastes currently stored outside to inside locations.

- ii. Establishment of a schedule for removal of wastes and obsolete equipment to minimize the volume of these materials stored onsite that may be exposed to storm water.
 - iii. Substitution of less hazardous materials, or materials less likely to contaminate storm water, or substitution of recyclable materials for nonrecyclables whenever possible.
 - iv. Constructing permanent or semipermanent covers, or other similar forms of protection over stockpiled materials, material handling and processing equipment. Options include roofs, tarps, and covers. This may also include the use of containment bins or covered dumpsters for raw materials, waste materials and nonrecyclables waste materials.
 - v. Dikes, berms, curbs, trenches, or other equivalent measures to divert run on from material storage, processing, or waste disposal areas.
 - vi. Implement and enforce, as appropriate, site-specific Project SWPPPs for all construction or other related activities consistent with Best Management Practices (BMPs). BMPs should be site-specific and designed to be as close to the disturbance foot print as practicable as identified in the project-specific Stormwater Pollution Prevention Plan (SWPPP) provisions. Sediment discharge control structures will be evaluated on a site/project specific basis and incorporated into the site/project construction SWPPP to ensure proper design.
 - vii. After construction, the sites will be managed under the site-wide UPDES UT000051 SWPPP.
- c. Preventive Maintenance. A preventive maintenance program shall involve inspection and maintenance of storm water management devices (e.g. cleaning oil/water separators, catch basins) as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters, and ensuring appropriate maintenance of such equipment and systems.
- d. Spill Prevention and Response Procedures. Areas where potential spills which can contribute pollutants to storm water discharges can occur, and their accompanying drainage points shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.

- e. Inspections. In addition to or as part of the comprehensive site evaluation required under this permit, qualified facility personnel shall be identified to inspect designated equipment and areas of the facility at appropriate intervals specified in the plan. A set of tracking or follow up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.
- f. Employee Training. Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. A pollution prevention plan shall identify periodic dates for such training. In all cases training must be held at least annually.
- g. Record keeping and Internal Reporting Procedures. A description of incidents such as spills, or other discharges, along with other information describing the quality and quantity of storm water discharges shall be included in the plan required under this part. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.
- h. Non-Storm Discharges.
 - i. The permittee's current certification will be accepted and considered complete. However, the plan shall include a certification that any new discharges have been tested or evaluated for the presence of non-storm water discharges. The certification shall include the identification of potential significant sources of non-storm water at the site, a description of the results of any test and/or evaluation for the presence of non-storm water discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. The certification must be signed in accordance with signatory requirements in *Part IV.G Signatory Requirements* of this permit. A discharger that is unable to provide certification required by this paragraph must notify the *Director*.
 - ii. Except for flows from fire fighting activities, sources of non-storm water that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

iii. Failure to Certify. If the permittee is unable to provide the certification required for new discharges (testing for non-storm water discharges), the facility must notify the Director within 30 days of construction of the new discharge. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification shall describe: The procedure of any test conducted for the presence on non-storm water discharges; the results of such tests or other relevant observations; potential sources of non-storm water discharges to the storm sewer; and why adequate test from such storm sewers were not feasible. Non-storm water discharges to waters of the United States that are not authorized by an NPDES permit are unlawful and must be terminated.

i. Sediment and Erosion Control. The plan shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to limit erosion. The plan shall also contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those that control the generation or sources of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide that measures that the permittee determines to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity (see paragraph Part I.F.4 of this section (Description of Potential Pollutant Sources) shall be considered when determining reasonable and appropriate measures. Appropriate measures may include; vegetative swales and practices, reuse of collected water (such as for a process or irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration deicers, and wet detention/retention devices.

j. Management of Runoff. Facilities shall consider implementation of the following storm water management practices to address pollutants of concern:

- i. Vegetative buffer strips, filter fabric fence, sediment filtering boom, or other equivalent measures, that effectively trap or remove sediment prior to discharge through an inlet or catch basin.
- ii. Media filtration such as catch basin filters and sand filters.
- iii. Oil/water separators or the equivalent
- iv. Structural BMPs such as settling basins, sediment traps, retention or detention ponds, recycling ponds or other equivalent measures.

Appropriate measures may include: vegetative swales and practice, reuse of collected storm water (such as for a process or as an irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration deicers and wet detention/retention devices.

6. Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the plan, but, in no case less than once a year. Such evaluations shall provide:
 - a. Areas contributing to a storm water discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.
 - b. Based on the results of the inspection, the description of potential pollutant sources identified in the plan and pollution prevention measures and controls identified in the plan shall be revised as appropriate within two weeks of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than twelve weeks after the inspection. A longer time period may be approved by the Director when justified by the permittee.
 - c. A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken shall be made and retained as part of the storm water pollution prevention plan for at least one year after coverage under this permit terminates. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with *Part IV.G Signatory Requirements* of this permit.

Where significant settling or deposition from process emissions are observed during proper operation of existing equipment, the permittee shall consider ways to reduce these emissions including but not limited to: Upgrading or replacing existing equipment; collection runoff from areas of deposition for treatment or recycling; or changes in materials or processes to reduce the generation of particulate matter.

- d. Where compliance evaluation schedules overlap with inspections required under Part I.F.5.e, the compliance evaluation may be conducted in place of one such inspection.
7. Consistency with other plans. Storm water pollution prevention plans may reflect requirements for *Spill Prevention Control and Countermeasure ("SPCC")* plans developed for the facility under *Section 311* of the *CWA* or *Best Management Practices ("BMP")* otherwise required by this permit for the facility as long as such requirement is incorporated into the storm water pollution prevention plan.
 8. Additional Requirements for Salt Storage. Storage piles of salt used for deicing or other commercial or industrial purposes and which generate a storm water discharge associated with industrial activity which is discharged to waters of the State shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile.
 9. Monitoring Requirements: During the period beginning on the effective date and lasting through the expiration date of this permit storm events greater than 0.1 inches and more than 72 hours after the previous measurable storm at sites SW3 and SW4 shall be monitored at least 2 times per year and sampled if discharge is present, for the same appropriate parameters as listed for the tailings impoundment outfall 012 in Part I.D.7. except for cyanide and biomonitoring. Where practical, samples must consist of a grab sample in the first 30 minutes of the observed discharge for pH, total metals and if a sheen is present oil & grease. In addition to the parameters listed, the permittee shall provide the date and duration (in hours) of the storm event(s) sampled; rainfall measurements or estimates (in inches) of the storm event which generated the sampled runoff; the duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event; and an estimate of the total volume (in gallons) of the discharge sampled. Monitoring is not required after reclamation bond release or reclamation has reduced values to background levels.
 10. Sampling Waiver. When unable to collect samples due to adverse climatic conditions, the discharger must submit in lieu of sampling data a description of why samples could not be collected, including available documentation of the event. Adverse weather conditions which may prohibit the collections samples includes weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, electrical storms, etc.) or otherwise make the collection of a sample impractical (drought, extended frozen conditions, etc).
 11. Reporting. Monitoring results shall be reported with the monthly Discharge Monitoring Report within 60 days of sampling.

12. EPCRA Section 313 Requirements. In areas where Section 313 water priority chemicals are stored, processed or otherwise handled, appropriate containment, drainage control and/or diversionary structures shall be provided. At a minimum, one of the following preventive systems or its equivalent shall be used:

- a. Curbing, culverting, gutters, sewers, or other forms of drainage control to prevent or minimize the potential for storm water run-on to come into contact with significant sources of pollutants; or
- b. Roofs, covers or other forms of appropriate protection to prevent storage piles from exposure to storm water and wind.
- c. No tank or container shall be used for the storage of a Section 313 water priority chemical unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature, etc.
- d. Liquid storage areas for Section 313 water priority chemicals shall be operated to minimize discharges of Section 313 chemicals. Appropriate measures to minimize discharges of Section 313 chemicals may include secondary containment provided for at least the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation, a strong spill contingency and integrity testing plan, and/or other equivalent measures.

Material storage areas for Section 313 water priority chemicals other than liquids that are subject to runoff, leaching, or wind shall incorporate drainage or other control features that will minimize the discharge of Section 313 water priority chemicals by reducing storm water contact with Section 313 water priority chemicals.

- e. Truck and rail car loading and unloading areas for liquid Section 313 water priority chemicals shall be operated to minimize discharges of Section 313 water priority chemicals. Protection such as overhangs or door skirts to enclose trailer ends at truck loading/unloading docks shall be provided as appropriate. Appropriate measures to minimize discharges of Section 313 chemicals may include: the placement and maintenance of drip pans (including the proper disposal of materials collected in the drip pans) where spillage may occur (such as hose connections, hose reels and filler nozzles) for use when making and breaking hose connections; a strong spill contingency and integrity testing plan; and/or other equivalent measures.
- f. Processing equipment and materials handling equipment shall be operated so as to minimize discharges of Section 313 water priority chemicals. Materials used in piping and equipment shall be compatible with the substances handled. Drainage from process and materials handling areas shall minimize storm

water contact with Section 313 water priority chemicals. Additional protection such as covers or guards to prevent exposure to wind, spraying or releases from pressure relief vents from causing a discharge of Section 313 water priority chemicals to the drainage system shall be provided as appropriate. Visual inspections or leak tests shall be provided for overhead piping conveying Section 313 water priority chemicals without secondary containment.

- g. Drainage from areas covered by paragraphs *a.*, *b.*, *c.*, or *d.* (above) should be restrained by valves or other positive means to prevent the discharge of a spill or other excessive leakage of Section 313 water priority chemicals. Where containment units are employed, such units may be emptied by pumps or ejectors; however, these shall be manually activated.

Flapper-type drain valves shall not be used to drain containment areas. Valves used for the drainage of containment areas should, as far as is practical, be of manual, open-and-closed design.

If facility drainage is not engineered as above, the final discharge of all in-facility storm sewers shall be equipped to be equivalent with a diversion system that could, in the event of an uncontrolled spill of Section 313 water priority chemicals, return the spilled material to the facility.

Records shall be kept of the frequency and estimated volume (in gallons) of discharges from containment areas.

- h. Other areas of the facility (those not addressed in paragraphs *a.*, *b.*, *c.*, or *d.*), from which runoff that may contain Section 313 water priority chemicals or spills of Section 313 water priority chemicals could cause a discharge shall incorporate the necessary drainage or other control features to prevent discharge of spilled or improperly disposed material and ensure the mitigation of pollutants in runoff or leachate.
- i. All areas of the facility shall be inspected at specific intervals identified in the plan for leaks or conditions that could lead to discharges of Section 313 water priority chemicals or direct contact of storm water with raw materials, intermediate materials, waste materials or products. In particular, facility piping, pumps, storage tanks and bins, pressure vessels, process and material handling equipment, and material bulk storage areas shall be examined for any conditions or failures that could cause a discharge. Inspection shall include examination for leaks, wind blowing, corrosion, support or foundation failure, or other forms of deterioration or noncontainment. Inspection intervals shall be specified in the plan and shall be based on design and operational experience. Different areas may require different inspection intervals. Where a leak or other condition is discovered that may result in significant releases of

Section 313 water priority chemicals to waters of the State, action to stop the leak or otherwise prevent the significant release of Section 313 water priority chemicals to waters of the State shall be immediately taken or the unit or process shut down until such action can be taken. When a leak or noncontainment of a Section 313 water priority chemical has occurred, contaminated soil, debris, or other material must be promptly removed and disposed in accordance with Federal, State, and local requirements and as described in the plan.

- j. Facilities shall have the necessary security systems to prevent accidental or intentional entry that could cause a discharge. Security systems described in the plan shall address fencing, lighting, vehicular traffic control, and securing of equipment and buildings.
- k. Facility employees and contractor personnel that work in areas where Section 313 water priority chemicals are used or stored shall be trained in and informed of preventive measures at the facility. Employee training shall be conducted at intervals specified in the plan, but not less than once per year. Training shall address: pollution control laws and regulations, the storm water pollution prevention plan and the particular features of the facility and its operation that are designed to minimize discharges of Section 313 water priority chemicals. The plan shall designate a person who is accountable for spill prevention at the facility and who will set up the necessary spill emergency procedures and reporting requirements so that spills and emergency releases of Section 313 water priority chemicals can be isolated and contained before a discharge of a Section 313 water priority chemical can occur. Contractor or temporary personnel shall be informed of facility operation and design features in order to prevent discharges or spills from occurring.

II MONITORING, RECORDING AND REPORTING REQUIREMENTS

- A. Representative Sampling. Samples taken in compliance with the monitoring requirements established under *Part I* shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Sludge samples shall be collected at a location representative of the quality of sludge immediately prior to the use-disposal practice.
- B. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under *Utah Administrative Code ("UAC") R317-2-10*, unless other test procedures have been specified in this permit.
- C. Penalties for Tampering. The *Act* provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.
- D. Reporting of Monitoring Results. Monitoring results obtained during the previous month shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), post-marked no later than the 28th day of the month following the completed reporting period. Beginning January 28th, 2017 all DMR submittals must be completed through NetDMR. The first report is due by the 28th of the month after permit effective date. If no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports including whole effluent toxicity (WET) test reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part IV.G)*, and submitted to the Director, Division of Water Quality and to EPA at the following addresses:
- original to: Department of Environmental Quality
Division of Water Quality
288 North 1460 West
PO Box 144870
Salt Lake City, Utah 84114-4870
- E. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.
- F. Additional Monitoring by the Permittee. If the permittee monitors any parameter more frequently than required by this permit, using test procedures approved under *UAC R317-2-10* or as otherwise specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated. Only those parameters required by the permit need to be reported.

G. Records Contents. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The individual(s) who performed the sampling or measurements;
3. The date(s) and time(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and,
6. The results of such analyses.

H. Retention of Records. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location.

I. Twenty-four Hour Notice of Noncompliance Reporting.

1. The permittee shall (orally) report any noncompliance which may seriously endanger health or environment as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of circumstances. The report shall be made to the Division of Water Quality, (801) 536-4300, or 24 hour answering service (801) 536-4123.
2. The following occurrences of noncompliance shall be reported by telephone (801) 536-4123 as soon as possible but no later than 24 hours from the time the permittee becomes aware of the circumstances:
 - a. Any noncompliance which may endanger health or the environment;
 - b. Any unanticipated bypass which exceeds any effluent limitation in the permit (See *Part III.G, Bypass of Treatment Facilities.*);
 - c. Any upset which exceeds any effluent limitation in the permit (See *Part III.H, Upset Conditions.*); or,
 - d. Violation of a maximum daily discharge limitation for any of the pollutants listed in the permit.
3. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
 - a. A description of the noncompliance and its cause;

- b. The period of noncompliance, including exact dates and times;
 - c. The estimated time noncompliance is expected to continue if it has not been corrected; and,
 - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.
4. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Division of Water Quality, (801) 536-4300.
 5. Reports shall be submitted to the addresses in *Part II.D, Reporting of Monitoring Results*.
- J. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for *Part II.D* are submitted. The reports shall contain the information listed in *Part II.I.3*.
- K. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
 4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location.

III COMPLIANCE RESPONSIBILITIES

- A. Duty to Comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- B. Penalties for Violations of Permit Conditions. The *Act* provides that any person who violates a permit condition implementing provisions of the *Act* is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions of the Act is subject to a fine not exceeding \$25,000 per day of violation; Any person convicted under *UCA 19-5-115(2)* a second time shall be punished by a fine not exceeding \$50,000 per day. Except as provided at *Part III.G, Bypass of Treatment Facilities* and *Part III.H, Upset Conditions*, and possibly *Part I.D.12, Storm Exemptions* nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.
- C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- E. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- F. Removed Substances. Collected screening, grit, solids, sludges, or other pollutants removed in the course of treatment shall be buried or disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.
- G. Bypass of Treatment Facilities.
1. *Bypass not exceeding limitations*. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for

essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2 and 3 of this section. Return of removed substances, as described in *Part III.F*, to the discharge stream shall not be considered a bypass under the provisions of this paragraph.

2. *Notice:*

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass.
- b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under *Part III.I, Twenty-four Hour Reporting*.

3. *Prohibition of bypass.*

- a. Bypass is prohibited and the Director may take enforcement action against a permittee for a bypass, unless:
 - i. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage ;
 - ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
 - iii. The permittee submitted notices as required under paragraph 2 of this section.
- b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraph 3.a of this section.

H. Upset Conditions.

1. *Effect of an upset.* An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph 2. of this section are met. The Director's administrative determination regarding a claim of upset cannot be judiciously challenged by the permittee until such time as an action is initiated for noncompliance.

2. *Conditions necessary for a demonstration of upset.* A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required under *Part II.I, Twenty-four Hour Notice of Noncompliance Reporting*; and,
 - d. The permittee complied with any remedial measures required under *Part III.D, Duty to Mitigate*.
 3. *Burden of proof.* In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- I. Toxic Pollutants: The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of *The Water Quality Act of 1987* for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- J. Changes in Discharge of Toxic Substances. Notification shall be provided to the Director as soon as the permittee knows of, or has reason to believe:
1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - a. One hundred micrograms per liter (100 ug/L);
 - b. Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(7)* or (10); or,
 - d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.
 2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

- a. Five hundred micrograms per liter (500 ug/L);
- b. One milligram per liter (1 mg/L) for antimony;
- c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(9)*; or,
- d. The level established by the Director in accordance with *UAC R317-8-4.2(6)*.

K. Industrial Pretreatment. Any wastewaters discharged to the sanitary sewer, either as a direct discharge or as a hauled waste, are subject to Federal, State and local pretreatment regulations. Pursuant to Section 307 of *The Water Quality Act of 1987*, the permittee shall comply with all applicable federal General Pretreatment Regulations promulgated at *40 CFR 403*, the State Pretreatment Requirements at *UAC R317-8-8*, and any specific local discharge limitations developed by the Publicly Owned Treatment Works (POTW) accepting the wastewaters.

In addition, in accordance with *40 CFR 403.12(p)(1)*, the permittee must notify the POTW, the EPA Regional Waste Management Director, and the State hazardous waste authorities, in writing, if they discharge any substance into a POTW which if otherwise disposed of would be considered a hazardous waste under *40 CFR 261*. This notification must include the name of the hazardous waste, the EPA hazardous waste number, and the type of discharge (continuous or batch).

IV GENERAL REQUIREMENTS

- A. Planned Changes. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit. In addition, if there are any planned substantial changes to the permittee's existing sludge facilities or their manner of operation or to current sludge management practices of storage and disposal, the permittee shall give notice to the Director of any planned changes at least 30 days prior to their implementation.
- B. Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- C. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- D. Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit.
- E. Duty to Provide Information. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.
- F. Other Information. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts or information.
- G. Signatory Requirements. All applications, reports or information submitted to the Director shall be signed and certified.
1. All permit applications shall be signed by either a principal executive officer or ranking elected official.
 2. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

Part IV
Permit No. UT0000051

- a. The authorization is made in writing by a person described above and submitted to the Director, and,
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
3. *Changes to authorization.* If an authorization under paragraph *IV.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph *IV.G.2* must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. *Certification.* Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- H. Penalties for Falsification of Reports. The *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000.00 per violation, or by imprisonment for not more than six months per violation, or by both.
- I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Director. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.

Part IV
Permit No. UT0000051

- J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the permittee of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the *Act*.
- K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, are held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- M. Transfers. This permit may be automatically transferred to a new permittee if:
1. The current permittee notifies the Director at least 20 days in advance of the proposed transfer date;
 2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,
 3. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.
- N. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by *UCA 19-5-117*.
- O. Water Quality-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:
1. Water Quality Standards for the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
 2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.

3. A revision to the current Water Quality Management Plan is approved and adopted which calls for different effluent limitations than contained in this permit.

P. Toxicity Limitation -Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include, whole effluent toxicity (WET) limitations, a compliance date, a compliance schedule, a change in the whole effluent toxicity (biomonitoring) protocol, additional or modified numerical limitations, or any other conditions related to the control of toxicants if one or more of the following events occur;

1. A pattern of toxicity is detected, as per Part I, D.13 of this permit, during the duration of this permit.
2. The TRE results indicate that compliance with the toxic limits will require an implementation schedule past the date for compliance and the Director agrees with the conclusion.
3. The TRE results indicate that the toxicant(s) represent pollutant(s) that may be controlled with specific numerical limits, and the Director agrees that numerical controls are the most appropriate course of action.
4. Following the implementation of numerical control(s) of toxicant(s), the Director agrees that a modified biomonitoring protocol is necessary to compensate for those toxicants that are controlled numerically.
5. The TRE reveals other unique conditions or characteristics which, in the opinion of the Director, justify the incorporation of unanticipated special conditions in the permit.