

April 25, 2003

Kelly B. Peterson City of Kent Environmental Engineering Department 220 4th Avenue South Kent, Washington 98032-5895

REFERENCE: Final Wetland Delineation Report

Maralco Aluminum Company Property in Kent, Washington.

EMR Proj. #6070.001-1

Dear Mr. Peterson:

Environmental Management Resources, Inc. (EMR) is submitting the enclosed Final Wetland Delineation Report prepared by Wetlands, Inc. for your approval. The report addresses wetland areas on the Former Maralco Aluminum Company property located at 7730 South 202nd Street in Kent.

Please call us at (425) 861-4561 with any questions or comments.

Very Truly Yours,

Christina Merten, PE Project Engineer

cc:

Bob Whitefield- Wetlands, Inc.

Dale Frank - Brown Dog Investments

Attachments

WETLANDS, INC. 720 SHELTER BAY DRIVE LA CONNER, WASHINGTON 98257 PHONE/FAX: 360-466-1412

REVISED WETLAND DELINEATIONS FOR

EMR INCORPORATED 2509 152ND AVENUE NE, STE. E REDMOND, WASHINGTON 98052-5548

MARALCO SITE KENT, WASHINGTON

APRIL, 2003

1. SITE DESCRIPTION

This is a 13 acre industrial property located at 7730 South 202 Street in Kent, Washington. It is in the NE1/4 of the SE1/4 of Section 1, Township 22 North, Range 4 East. It is bounded on the north by S 202 Street, on the east by 80 Avenue S, on the south by adjacent industrial buildings, and on the west by Burlington Northern Railroad tracks.

Entering the property near the northeast corner is Christopher Ditch, listed by the City of Kent as a Minor Stream. The stream flows in a SW trajectory for about 450 feet, then turns in a NW trajectory where it flows off the property through a drain pipe. An unnamed Minor Stream enters the property through a drain pipe from the center southwest portion of the property and flows into Christopher Ditch before it exits the property. The caretaker of the property states that Christopher Ditch dries up in the summer months.

Christopher Ditch and its tributary are generally located in the eastern 5.9 acres of the property. The rest of the property is made up of industrial buildings, warehousing, distribution, and parking areas. Also found in the western half of the property are large piles of waste material including black dross, furnace slag, and baghouse dust. This property is considered a Hazardous Waste site by the Department of Ecology.

The wetlands on this property are found along the sides of, and in Christopher Ditch and its tributary. This wetland is designated as Wetland A. It is 49,227 square feet is size and is a Category 2 wetland under Kent City Code. This wetland requires a 50 foot buffer from the wetland edge plus a 15 foot setback (BSBL) from the outer edge of the 50 foot wetland buffer.

Christopher Ditch is a Minor Stream per KCC and requires a 25 foot buffer from the stream. It is noted that the 50 foot wetland buffer extends 25 feet beyond the stream's buffer therefore, the streams buffer is superceded by the greater wetland buffer.

The wetlands are vegetated and dominated with wetland grass and herbaceous plants. A small forested portion of the wetland extends into the site from a neighboring property. The soils of the wetlands are of the Woodinville series which are quite commonly found in the stream beds of King County in the lower elevations. The upland soil of the site is the Renton silt loam series. This soil is well drained and is sandy in the B horizon. North of Christopher Ditch, some of the Renton silt loam area had black dross compacted into the A horizon which accounts for the Reed canarygrass that is found there. This area is not a wetland.

We have also mapped a small Category 3 Wetland that is north and off the property. A very small amount of the 15 foot BSBL extends into the property.

2. WETLAND SITE ASSESSMENT

This wetland site assessment was prepared in accordance with Corps of Engineers methodology and the Kent City Code, Chapter 11.05.

a. VEGETATION

The vegetation of the wetland is dominated by:

80% Reed canarygrass, Phalaris arundinacea, FACW

5% Giant horsetail, Equisetum telmateia, FACW

5% Creeping buttercup, Ranunculus repens, FACW

5% Poa palustris, Kentucky bluegrass, FAC

3% Populus trichocarpa, Black cottonwood, FAC

2% Typha latifolia, Cattail, FACW

The vegetation of the upland soil is dominated by:

50% Rubus laciniatus, Evergreen blackberry, FACU

25% Festuca arundinacea, Tall fescue, FACU

15% Festuca rubra, Red fescue, FAC

10% Poa palustris, Kentucky bluegrass, FAC

b. SOILS

The USDA Soil Survey of King County has mapped the upland areas of the property as Renton silt loam. Our Soil Pits 1 and 3 characterizations agree with this mapping unit. We find a matrix color in the A horizon of 10YR3/2 to 8 inches. The texture is a silt loam. No mottles are present. The B horizon transcends to 2.5Y 4/4 and is a very fine sandy loam to 16 inches. This is a well drained soil. It is a Mollic fluvaquents in Hydrologic Group and is Non-hydric.

The wetland soil is Woodinville silt loam which is commonly found along drainage ways and stream bottoms in King County. The USDA Soil Survey of King County has mapped this soil in the area and we find Woodinville silt loam to be the soil in and along side of Christopher Ditch and the tributary. Soil Pits 2 and 4 show the locations on the accompanying map. We find a shallow dark silty clay loam A horizon with a matrix of 10YR 2/1 to 8 inches. The B horizon gray silty clay loam, 5Y 6/1 with mottles at 7.5YR 4/3 to 20 inches. This is an Aeric fluvaquents in Hydrologic Group D and is a Hydric soil.

c. WETLAND HYDROLOGY

The Woodinville soils are very wet. They have standing water to saturation to 20 inches. The histic epipedon is present as well as mottling in the B horizon. Drift lines are present along the adjacent vegetation of the Ditches.

d. WETLAND DETERMINATION TABLES

PLOT#	VEGETATION	SOIL	WETLAND HYDROLOGY
1	Negative	Negative	Negative
2	Positive	Positive	Positive
3	Negative	Negative	Negative
4	Positive	Positive	Positive
e. SUMMA	ARY		

This property is a Hazardous Material site contaminated by heavy metals. The Upland areas are a well drained silt loam with a deep very fine sandy loam. Christopher Ditch, its tributary and the Woodinville silt loam adjacent to the Ditches comprise the wetlands. Wetland flaggings A1 through A49 delineates the wetland edges. Christopher Ditch and its tributary is a Minor Stream under KCC 11.05 and requires a 50 foot buffer from the wetland edge plus 15 feet baseline setback to the nearest construction.

Respectfully submitted,

Robert O. Whitefield

Wetlands, Inc.

DATA FORM 1 WETLAND DETERMINATION

Applicant Name: EMR, IN	App I	ication er: 03-1	Project Name: MA	RALCO SITE	
State: WA Cou	ney: KING Les	al Description:			
Date: 1-22-03					
Vegetation [list th	e three dominant	species in each	vegetation layer	(5 1f	
only 1 or 2 layers)]. Indicate spec	ies with observ	ed morphological o	r known	
physiological adapt	ations with an as	sterisk.			
,	Indicator		Indicato		
Species	Status	Species	Status	_ 	
Trees		Herbs	or a sumplificate	FACIL	
1.		7. FESTUC	CA ARUNDINACEA	FACU	
2.		B. FEST	UCA SPP.	FILCOD	
3.	·	9.		•	
Saplings/shrubs		Woody vines			
4. RUBUS LACINI	atus facut	10.			
5,		11.			
6.		12.			
% of species that a	ere OBL, FACW, an	d/or FAC: <u><10</u> .	Other indicators:	,	٠
Hydrophytic vegetal	tion: Yes N	o 🗶 . Basis:	>80% ARE FAC	<u>cu</u>	
		•		•	
Soil .	·			V	
Series and phase:	CENTON SILT LUA	M On hydric so:	its list? Yes	_; no <u>^</u>	
Mottled: Yes	No X . Mottl	e color:	; Marrix color:	10183/2	
Gleyed: Yes	No X Other i	ndicators:		D 41.21	-20A
Hydric soils: Yes	No X; B	lasis: WELL	DRAINED SAW	D TO 20" IN B MURI	(2
				•	
Hydrology					
Inundated: Yes	. No X . Der	th of standing	water!	ing and the second of the seco	
Inundated: YesSaturated soils:	Yes : No X	. Depth to sat	urared watt.	30"	
Other indicators:	Yes : No >	(Basis: /M	DICATORS NOT	PRESEM	
Atypical situation	Yes : No	₹.			
	V No.				
Wetland Determinat	ion: Watland	· · · · · · · · · · · · · · · · · · ·	: Nonwetland X		
	. 4011				
Comments:			0	- 0	
		Determined	by: B. WHITEFIE	ECN	

DATA FORM 1

WETLAND DETERMINATION

Applicant Name: EMR INC	Application Project Number: 03-1 Name:	TARALCO SITE
State: WA County: KIND	Legal Description: Township: 2	2√Range: 4=
Date: 1-22-03 Plot No.	SPZ Section:	1
Vegetation [list the three domin	nent species in each vegetation 1	ayer (5 if
only 1 or 2 layers)]. Indicate	species with observed morphologi	cal or known
physiological adaptations with	an asterisk.	
Indicator Species Status		icator
Trees	Herbs	VACEA FACE
1.	7. PHALARIS ARUMAN	4.10
2.	8. RANUNCULUS REPE	hs FACW
3.	9. POA PALLISTRIS	FAC
Saplings/shrubs	Woody vines	
4.	10.	•
5.	11.	
6.	12.	
% of species that are OBL, FACW	, and/or FAC: 280. Other indicat	ors:
Hydrophytic vegetation: Yes X	No Basis: 780% OF DC	MINAMS ARE FACE
Mottled: Yes X; No M	On hydric soils list? Yes	ior: 10YR 2/1,
Gleyed: Yes No X Oth	er indicators:	-711/4
Hydric soils: Yes Y No	er indicators: ; Basis: <u>REDOX/MORPHICA</u>	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Hydrology Inundated: Yes X; No Saturated soils: Yes X; No	Depth of standing water: 0 - / Depth to saturated and Colors IN VEGETATION Basis: INDICATORS PRO No ; Nonwetland	0-10 EEW
	Paraminad by B. W. F.	lefield

DATA FORM I WETLAND DETERMINATION

ine: EMR, INC		plication mber: 03-1	Name: MARALCO) S179
ate: MA Cou	nty: KING L		Township: 22N Range:	4E
te: <u>1-23-03</u>	Plot No.:	573	Section:	
retation [list th	e three dominan	t species in each	vegetation layer (5. i	(f .
			red morphological or kr	- · ·
ysiological adapt				
•	Indicator		Indicator	
Species	Status	Species	Status	
668		Herbs	1	FACU
			CA ARWIDINACEA	
		8. FEST	ACA SPI	FACU
		9.		
plings/shrubs	· ·	Woody vines		,
Rueus LACIN	intus. FACK	^t 10.	•	
		11.	•	•
		12.		
	- ANT PARIL -		Other indicators:	
11			780% ARE FACE	
ries and phase: $ abla$	EMON PIEL TO	Arm On hydric so	ils list? Yes ; 8	0 \
ttled: Yes	No X. Moti	tle color:	: Matrix color: 10)	<u>r 518 - (19/6)</u>
Leyed: Yes	No Y Other	indicators:	INED SAW) TO EA	E HORIZON
dric soils: Yes	No_ <u>X;</u>	Basis: WELL DICT	INFD 24MD LO ST	17. [1]
drology			~ ~ M	•
undated: Yes	; No <u>×</u> . D	epth of standing	water: 230"	ال المساوية
turated soils:	Yes; NoY	Depth to sat	urated see N/A	or an organization of
tland hydrology:	Yes; No_	X Basis: [N	DICATORS NOT PRESS	ive t
typical situation	: Yes; No_			
	A 17 - V 81	_	\	and the second
etland Determinat	ion: Wetland_		; Nonwerland	•
omments:	***			
			by: BWhitefie	M
		Determined	by: the Medical	

DATA FORM 1

WETLAND DETERMINATION

Applicant Name: TMR The	Application Number: 03-	Project Name: MARALCO SITE
State: WA County: KING		
Date: 1-23-03 Plot No		
Vegetation [list the three dom	inent species in each	vegetation layer (5 if
only 1 or 2 layers)]. Indicate	e species with observ	ed morphological or known
physiological adaptations with	an asterisk.	
Indicato		Indicator
Species Status	Species	
Trees 1. POPULUS TRICHOCARPA	FAC PHALA	INNS BICKADILACEA FO
	7. (10 CA)	Iculus REFERS FA
2.	8. C	ETUM TELMATEM F
3.		100000
Saplings/shrubs 4. TYPHA LATIFOLIA FA	CW Woody vines	
5,	11.	
6.	12.	
I of species that are OBL, FAC	W, and/or FAC: 28011	Other indicators:
Hydrophytic vegetation: Yes	X No	BOX OF CONTINATES AKE, FAC
Soil Series and phase: ////////////////////////////////////	Mottle color: 570 5	F; Matrix color: 10 YR 42.
Hvdrology Inundated: Yes X; No Saturated soils: Yes X; No	. Depth to sate	graned ending Only
5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ニキュムから コムナーゼド	76E71+711N
Wetland hydrology: Yes X;	No Basis:////	CATORS PRECERT
Atypical situation: Yes ;	No Y.	· ·
Normal Circumstances? Yes Y	No .	
Wetland Determination: Wetland	\ /	; Nonwetland
Comments:		
	Determined	ov: Burtisfield