

Carbon Dioxide and Hydrogen Sulfide Associations with Regional Bacterial Diversity

Patterns in Microbially Induced Concrete Corrosion

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Supplementary Information

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Sample	Region	Site	Plant Flow	Location	Description	Color	Material	Surface Type
A01	RM	A.1	140	secondary influent channel	white corrosion product on wall	white	concrete	mild
A21	RM	A.3	140	secondary influent channel	roof black surface 0-1 cm	black	concrete	severe
A24	RM	A.3	140	secondary influent channel	roof yellow surface 0-1 cm	yellow	concrete	severe
A26	RM	A.3	140	secondary influent channel	roof near iron pipe	orange	concrete	severe
A27	RM	A.3	140	secondary influent channel	roof near iron rebar	orange	concrete	severe
A28	RM	A.3	140	secondary influent channel	roof green surface	green	concrete	severe
A41	RM	A.4	140	test cylinder in manhole	biofilm on epoxy	brown/yellow	film	coated
A43	RM	A.4	140	test cylinder in manhole	biofilm on epoxy	yellow	film	coated
A44	RM	A.4	140	test cylinder in manhole	biofilm on epoxy	green	film	coated
A45	RM	A.4	140	test cylinder in manhole	biofilm on epoxy	green	film	coated
A61	RM	A.6	140	manhole upstream of plant	grey corrosion product near surface	grey	concrete	severe
A62	RM	A.6	140	manhole upstream of plant	brown corrosion product near surface	brown	concrete	severe
A63	RM	A.7	140	manhole upstream of plant	grey corrosion product near surface	grey	concrete	mild
A64	RM	A.8	140	manhole upstream of plant	grey corrosion product near surface	white	concrete	mild
B01	RM	B.1	12	digester effluent well	yellow/white corrosion 0-1 cm	white/yellow	concrete/film	severe
B02	RM	B.1	12	digester effluent well	yellow/white corrosion 1-2 cm	white/yellow	concrete/film	severe
B04	RM	B.1	12	digester effluent well	yellow/white corrosion 0-1 cm	white/yellow	concrete/film	mild
B06	RM	B.3	12	bar screen influent channel	cement scraping on outdoor channel	white	concrete	severe
B07	RM	B.4	12	bar screen chamber	cement scraping near bar screen	brown	film	severe
C02	RM	C.2	12	digester gas leak	outdoor surface near gas leak	white	concrete	mild
D03	RM	D.2	54	grit chamber effluent channel	grey corrosion product	grey	concrete	mild

E01	MW	E.1	120	influent channel	at edge of ledge (vertical)	white/brown	concrete	mild
E04	MW	E.2	120	manhole within plant	white corrosion product on wall	white/yellow	concrete	mild
F01	MW	F.1	250	manhole upstream of siphon	brown-orange biofilm	orange	film	mild
F02	MW	F.1	250	manhole upstream of siphon	white spiky biofilm on epoxy 1' down	orange	film	mild
F03	MW	F.2	250	manhole upstream of siphon	brown-orange biofilm near rim	white	nubbins	coated
F05	MW	F.4	30	manhole upstream of plant	brown-orange biofilm near rim	brown	film	mild
G01	SE	G.1	1	lift station	white corrosion product	white	concrete	mild
G04	SE	G.1	1	lift station	brown, below coal tar epoxy	brown	concrete	mild
H01	SE	H.1	143	influent mixing well	corrosion with flaking black epoxy	white/green	concrete/film	severe
H03	SE	H.3	143	septic truck discharge	biofilm on bottom of steel lid	white	nubbins	coated
H04	SE	H.4	143	pump station bar screen well	cement scraping near bar screen	white/brown	concrete/fecal	mild
J01	PW	J.1	350	secondary clarifier wall	grey biofilm on clarifier wall	grey	film	coated
J02	PW	J.2	350	well between primary and secondary	green biofilm 6" below	green	film	coated
K04	PW	K.3	80	cake press room beam	grey and yellow corrosion product	white/yellow	concrete	severe