

Supplemental Material:

Figure S1: Rarefaction curves

Table S1: Summary of sampling plot parameters

Table S2: Summary of edaphic parameters

Table S3: The impact of LUI on the β -diversity within one sampling season in all compartments (between sample diversity)

Table S4: The impact of sampling season on the β -diversity within one LUI in all compartments (between sample diversity)

Table S5: Relative abundance of assigned Phyla

Table S6: Relative abundance of assigned Genera

Table S7: Classification of core OTUs in roots and high LUI. Shared Core OTUs (May, June, October) high LUI: 12

Table S8: Classification of core OTUs in roots and low LUI. Shared Core OTUs (May, June, October) low LUI: 14

Table S9: Classification of shared core OTUs that were found in 95% in high LUI samples across all sampling seasons (rhizosphere)

Table S10: Classification of shared core OTUs that were found in 95% in low LUI samples across all sampling seasons (rhizosphere)

Table S11: Classification of shared core OTUs that were found in 95% in high LUI samples across all sampling seasons (bulk soil)

Table S12: Classification of shared core OTUs that were found in 95% in high LUI samples across all sampling seasons (bulk soil)

Figure S1

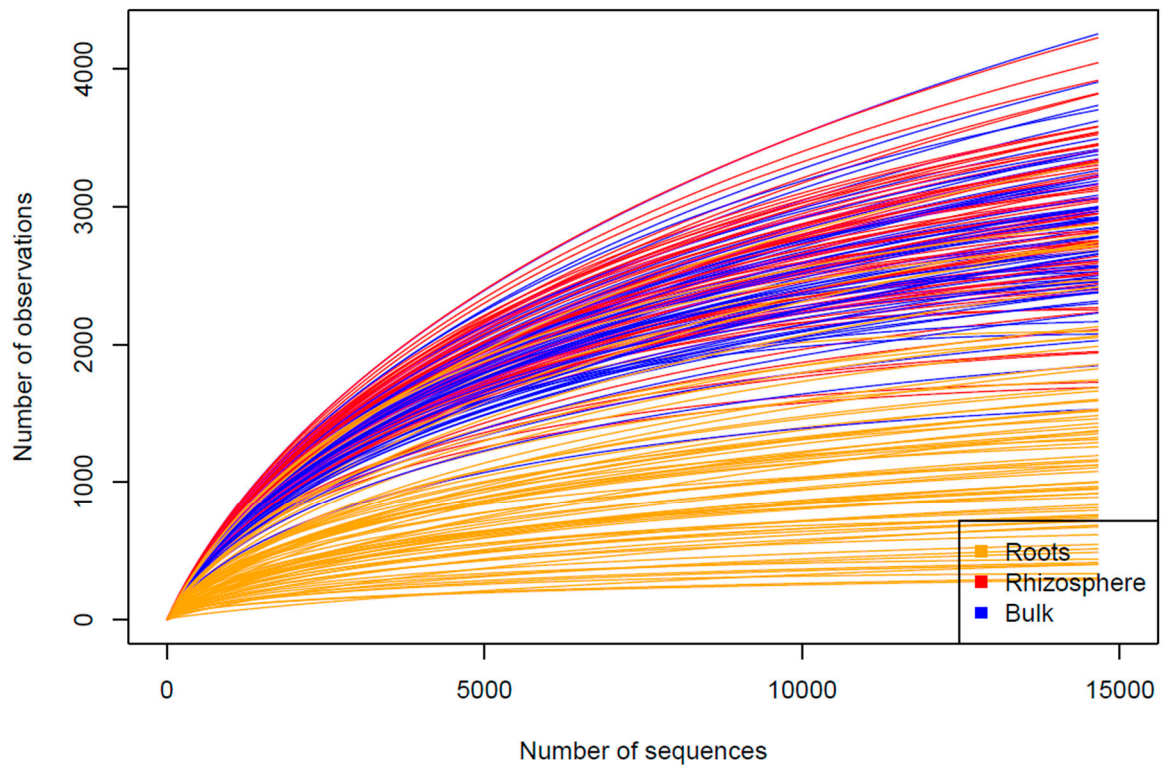


Table S1

Plot ID	Management	Treatment	Index (2006-2014)
AEG6	mown pasture	fertilized	2.25
AEG19	mown pasture	fertilized	2.28
AEG20	pasture	fertilized	1.55
AEG21	meadow	fertilized	3.62
AEG7	meadow	non-fertilized	0.56
AEG28	pasture	non-fertilized	1.06
AEG33	pasture	non-fertilized	1.32
AEG34	pasture	non-fertilized	1.31

Table S2

Timepoint	Plot ID	WEOC $\mu\text{g g}^{-1}$ dw	WEON $\mu\text{g g}^{-1}$ dw	Nitrate $\mu\text{g N g}^{-1}$ dw	Ammonium $\mu\text{g N g}^{-1}$ dw	C/N ratio plants	Water (%)	Total C g/kg soil	Total N g/kg soil
May	AEG6	36.99 \pm 2.28	26.79 \pm 7.57	21.02 \pm 7.17	0.13 \pm 0.03	7.56 \pm 0.6	36	88,21	8,71
	AEG19	41.45 \pm 5.40	32.91 \pm 8.04	24.73 \pm 6.23	0.18 \pm 0.03	7.73 \pm 0.42	41	82,64	8,09
	AEG20	33.05 \pm 2.59	14.08 \pm 1.48	8.51 \pm 1.62	0.18 \pm 0.05	13.06 \pm 2.31	41	86,19	9,17
	AEG21	33.49 \pm 3.12	13.41 \pm 5.24	11.84 \pm 2.82	0.71 \pm 0.2	10.86 \pm 0.94	31	70,77	7,06
	AEG7	34.05 \pm 3.14	6.24 \pm 2	2.09 \pm 0.8	0.31 \pm 0.05	12.96 \pm 2.34	36	88,69	4,77
	AEG28	37.79 \pm 2.75	5.55 \pm 1.8	2.28 \pm 1.38	0.44 \pm 0.09	21.41 \pm 3.82	34	82,64	8,09
	AEG33	31.44 \pm 9.08	15.02 \pm 5.09	10.54 \pm 2.68	0.83 \pm 0.44	17.81 \pm 2.2	35	86,19	9,17
	AEG34	32.07 \pm 4.28	8.09 \pm 1.59	3.17 \pm 1.7	0.42 \pm 0.27	16.11 \pm 4.32	33	70,77	7,06
June	AEG6	25.84 \pm 5.55	40.65 \pm 8.23	42.29 \pm 4.53	0.1 \pm 0.04	19.73 \pm 2.78	37	88,21	8,71
	AEG19	30.25 \pm 7.8	41.87 \pm 9.41	45.57 \pm 9.13	0.11 \pm 0.03	12.25 \pm 0.19	34	82,64	8,09
	AEG20	24.75 \pm 4.76	48.42 \pm 11.92	51.04 \pm 7.26	0.11 \pm 0.02	13.04 \pm 1.41	44	86,19	9,17
	AEG21	25.56 \pm 4.5	41.57 \pm 12.2	45.43 \pm 11.04	0.13 \pm 0.06	14.51 \pm 1.39	36	70,77	7,06
	AEG7	27.54 \pm 3.5	25.61 \pm 5.79	17.03 \pm 4.87	5.76 \pm 1.57	16.65 \pm 0.21	40	88,69	4,77
	AEG28	25.08 \pm 6.02	14.46 \pm 3.8	12.11 \pm 2.93	2.28 \pm 0.49	25.78 \pm 1.85	34	82,64	8,09
	AEG33	25.48 \pm 4.65	8.67 \pm 1.56	4.55 \pm 2.48	2.81 \pm 0.91	26.46 \pm 1.27	31	86,19	9,17
	AEG34	24.05 \pm 4.71	21.25 \pm 4.59	24.77 \pm 5.19	0.79 \pm 0.38	28.33 \pm 0.28	30	70,77	7,06
October	AEG6	58.64 \pm 3.84	13.04 \pm 2.67	6.12 \pm 4.78	1.7 \pm 0.28	11.57 \pm 2.01	26	88,21	8,71
	AEG19	86.10 \pm 19.19	39.85 \pm 12.36	8.39 \pm 3.21	2.5 \pm 0.82	9.32 \pm 1.35	31	82,64	8,09
	AEG20	40.86 \pm 4.77	59.6 \pm 4.53	19.6 \pm 6.67	0.039 \pm 0.031	12.17 \pm 2.56	38	86,19	9,17
	AEG21	81.49 \pm 7.89	25.94 \pm 5.94	14.19 \pm 5.66	1.06 \pm 0.67	12.29 \pm 0.86	28	70,77	7,06
	AEG7	61.47 \pm 21.35	10.27 \pm 3.49	2.2 \pm 1.4	5.83 \pm 2.24	21.4 \pm 5.78	26	88,69	4,77
	AEG28	37.23 \pm 6.99	25.12 \pm 3.57	5.42 \pm 3.06	3.18 \pm 1.18	18.68 \pm 0.3	24	82,64	8,09
	AEG33	85.92 \pm 8.08	9.48 \pm 1.17	0.66 \pm 0.34	1.97 \pm 0.5	16.35 \pm 3.7	29	86,19	9,17
	AEG34	55.35 \pm 6.07	32.21 \pm 6.69	15.37 \pm 9.15	0.72 \pm 0.45	20.34 \pm 4.04	25	70,77	7,06

Table S3

Compartment	Sampling season	Unifrac Distance	R2	p-value	Significance level
Roots	May	weighted	0.04643	0.311	
		unweighted	0.0498	0.154	
	June	weighted	0.04626	0.349	
		unweighted	0.06919	0.027	*
	October	weighted	0.05816	0.192	
		unweighted	0.05056	0.176	
Rhizosphere	May	weighted	0.04955	0.317	
		unweighted	0.06709	0.031	*
	June	weighted	0.06403	0.155	
		unweighted	0.08079	0.005	**
	October	<i>weighted</i>	<i>0.09016</i>	<i>0.085</i>	.
		unweighted	0.08579	0.007	**
Bulk	May	weighted	0.12267	0.037	*
		unweighted	0.11207	0.001	***
	June	weighted	0.08407	0.05	*
		unweighted	0.13933	0.002	**
	October	weighted	0.0569	0.246	
		unweighted	0.08958	0.016	*

Table S4

Compartment	LUI	Unifrac Distance	R2	p-value	Significance level
Roots	high	<i>weighted</i>	<i>0.0928</i>	<i>0.068</i>	.
		unweighted	0.09197	0.011	*
	low	<i>weighted</i>	0.08401	0.154	
		unweighted	0.08175	0.027	*
Rhizosphere	high	weighted	0.13248	0.009	**
		unweighted	0.13786	0.001	***
	low	weighted	0.15565	0.001	***
		unweighted	0.16921	0.001	***
Bulk soil	high	weighted	0.16153	0.015	**
		unweighted	0.14025	0.001	***
	low	<i>weighted</i>	<i>0.10641</i>	<i>0.066</i>	.
		unweighted	0.09614	0.004	**

Table S5

Phylum	Roots RA (%)	Rhizosphere RA (%)	Bulk RA (%)
Acidobacteria	0.011	0.033	0.046
Actinobacteria	0.029	0.069	0.098
Bacteroidetes	0.058	0.171	0.198
Chlamydiae	<0.001	0.000	0.001
Chlorobi	0.001	0.004	0.010
Chloroflexi	<0.001	0.001	0.002
Fibrobacteres	<0.001	0.001	<0.001
Firmicutes	0.012	0.012	0.019
Gemmatimonadetes	0.001	0.007	0.009
Nitrospirae	0.002	0.006	0.013
Planctomycetes	0.001	0.003	0.004
Proteobacteria	0.880	0.679	0.583
Spirochaetes	<0.001	<0.001	0.001
TM6	<0.001	0.002	0.004
TM7	0.002	0.011	0.011
WS3	<0.001	<0.001	0.001
Other	0.003	0.001	0.002

Table S6

Taxon	Roots RA (%)	Rhizosphere RA (%)	Bulk RA (%)
Other	0.13	0.19	0.19
<i>Agrobacterium</i>	0.02	0.00	0.00
<i>Bacillus</i>	0.00	0.01	0.01
<i>Bosea</i>	0.01	0.00	0.00
<i>Bradyrhizobium</i>	0.02	0.03	0.03
<i>Burkholderia</i>	0.03	0.00	0.00
<i>Candidatus Solibacter</i>	0.00	0.01	0.02
<i>Caulobacter</i>	0.01	0.01	0.00
<i>Citrobacter</i>	0.02	0.00	0.00
<i>Devosia</i>	0.00	0.01	0.00
<i>Dokdonella</i>	0.00	0.01	0.00
<i>Enterobacter</i>	0.01	0.00	0.00
<i>Erwinia</i>	0.01	0.00	0.00
<i>Flavobacterium</i>	0.00	0.01	0.01
<i>Gluconacetobacter</i>	0.03	0.00	0.00
<i>Janthinobacterium</i>	0.04	0.01	0.00
<i>Kaistobacter</i>	0.00	0.02	0.02
<i>Labrys</i>	0.01	0.00	0.00
<i>Luteibacter</i>	0.02	0.00	0.00
<i>Mesorhizobium</i>	0.01	0.01	0.01
<i>Methylibium</i>	0.02	0.02	0.01
<i>Microlunatus</i>	0.00	0.01	0.01
<i>Nitrospira</i>	0.00	0.00	0.01
<i>Pedobacter</i>	0.01	0.01	0.00
<i>Pedomicrobium</i>	0.00	0.01	0.01
<i>Polaromonas</i>	0.01	0.01	0.00
<i>Pseudomonas</i>	0.23	0.01	0.01
<i>Pseudoxanthomonas</i>	0.00	0.01	0.00
<i>Rahnella</i>	0.02	0.00	0.00
<i>Ramlibacter</i>	0.00	0.01	0.00
<i>Rhizobium</i>	0.03	0.00	0.00
<i>Rhodanobacter</i>	0.01	0.00	0.00
<i>Rhodoplanes</i>	0.01	0.04	0.06
<i>Rubrivivax</i>	0.00	0.01	0.01
<i>Sphingomonas</i>	0.02	0.01	0.00
<i>Steroidobacter</i>	0.00	0.00	0.01
<i>Thermomonas</i>	0.00	0.01	0.00
<i>Variovorax</i>	0.01	0.01	0.00
<i>Xanthomonas</i>	0.02	0.00	0.00
Alcaligenaceae__f	0.00	0.01	0.01
C111__f	0.00	0.01	0.01
Chitinophagaceae__f	0.02	0.08	0.12
Comamonadaceae__f	0.01	0.02	0.01
Coxiellaceae__f	0.01	0.00	0.00
Cytophagaceae__f	0.00	0.02	0.02

EB1017__f	0.00	0.01	0.01
Enterobacteriaceae__f	0.03	0.00	0.00
Gaiellaceae__f	0.00	0.01	0.02
Haliangiaceae__f	0.01	0.01	0.02
Hyphomicrobiaceae__f	0.01	0.01	0.02
Oxalobacteraceae__f	0.01	0.00	0.00
Rhizobiaceae__f	0.01	0.00	0.00
Rhodospirillaceae__f	0.01	0.02	0.02
Saprospiraceae__f	0.00	0.01	0.01
Sinobacteraceae__f	0.03	0.09	0.06
Sphingomonadaceae__f	0.02	0.02	0.00
Syntrophobacteraceae__f	0.00	0.01	0.01
Xanthomonadaceae__f	0.01	0.03	0.02
Acidimicrobiales__o	0.00	0.01	0.01
Actinomycetales__o	0.00	0.00	0.01
Ellin6067__o	0.00	0.03	0.03
MND1__o	0.00	0.01	0.01
Myxococcales__o	0.01	0.03	0.03
Rhizobiales__o	0.00	0.01	0.01
SC-I-84__o	0.00	0.03	0.03
Solibacterales__o	0.00	0.01	0.01
Solirubrobacterales__o	0.00	0.01	0.01
Sphingobacteriales__o	0.00	0.02	0.03
Betaproteobacteria__c	0.00	0.02	0.02
Gemm-1__c	0.00	0.00	0.01
SJA-28__c	0.00	0.00	0.01
TM7-1__c	0.00	0.01	0.01

Table S7

OTU ID	Phylum	Class	Order	Family	Genus	Species
633252	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	<i>veronii</i>
398604	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
4455861	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
3314521	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.5.CleanUp.ReferenceOTU9448	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.6.CleanUp.ReferenceOTU1087	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
4377104	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
1105814	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
1104627	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Rhizobium</i>	not assigned
220539	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Rhizobium</i>	not assigned
969805	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Agrobacterium</i>	not assigned
218772	Proteobacteria	Alphaproteobacteria	Rhizobiales	Xanthobacteraceae	<i>Labrys</i>	not assigned

Table S8

OTU ID	Phylum	Class	Order	Family	Genus	Species
New.10.CleanUp.ReferenceOTU12056	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	<i>umsongensis</i>
New.8.CleanUp.ReferenceOTU6025	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	<i>umsongensis</i>
New.10.CleanUp.ReferenceOTU14298	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	<i>umsongensis</i>
633252	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	<i>veronii</i>
646549	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
3314521	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.5.CleanUp.ReferenceOTU9448	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.6.CleanUp.ReferenceOTU1087	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.7.CleanUp.ReferenceOTU2156	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Rhizobium</i>	not assigned
New.10.CleanUp.ReferenceOTU1433	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Rhizobium</i>	not assigned
1104627	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Rhizobium</i>	not assigned
4377104	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
1105814	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
New.6.CleanUp.ReferenceOTU7929	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Caulobacter</i>	not assigned

Table S9

Rhizosphere: Shared Core OTUs (May, June, October) high LUI: 235						
OTU ID	Phylum	Class	Order	Family	Genus	Species
1052559	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	<i>asaccharolytica</i>
1105085	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Asticcacaulis</i>	<i>biprosthecium</i>
567840	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bosea</i>	<i>genosp.</i>
829415	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bosea</i>	<i>genosp.</i>
731707	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Variovorax</i>	<i>paradoxus</i>
New.3.CleanUp.ReferenceOTU123	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Variovorax</i>	<i>paradoxus</i>
New.3.CleanUp.ReferenceOTU2575	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Variovorax</i>	<i>paradoxus</i>
New.2.CleanUp.ReferenceOTU3395	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	<i>wittichii</i>
1069076	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>Adhaeribacter</i>	not assigned
969805	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Agrobacterium</i>	not assigned
850572	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Agrobacterium</i>	not assigned
838594	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
961922	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
580703	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
681987	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Balneimonas</i>	not assigned
318609	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
573135	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
236922	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
98457	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
573764	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
4377104	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
1105814	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
580625	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
136297	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus solibacter</i>	not assigned
New.3.CleanUp.ReferenceOTU7152	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus solibacter</i>	not assigned
New.4.CleanUp.ReferenceOTU3180	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus solibacter</i>	not assigned

811449	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Caulobacter</i>	not assigned
866365	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Caulobacter</i>	not assigned
849118	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
573013	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
New.0.CleanUp.ReferenceOTU4830	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
1072673	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
941487	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	<i>Janthinobacterium</i>	not assigned
166064	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	<i>Janthinobacterium</i>	not assigned
989109	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
1109964	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
136151	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
343503	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
573258	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.0.CleanUp.ReferenceOTU6126	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.0.CleanUp.ReferenceOTU8268	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.1.CleanUp.ReferenceOTU2902	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.2.CleanUp.ReferenceOTU4934	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.3.CleanUp.ReferenceOTU6571	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.4.CleanUp.ReferenceOTU9070	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
543156	Proteobacteria	Alphaproteobacteria	Rhizobiales	Xanthobacteraceae	<i>Labrys</i>	not assigned
620684	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
547097	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
571263	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
4396454	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
689696	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
583766	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
672144	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU2979	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU3919	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU6392	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned

New.0.CleanUp.ReferenceOTU7272	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU7828	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.1.CleanUp.ReferenceOTU2316	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.3.CleanUp.ReferenceOTU3379	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.3.CleanUp.ReferenceOTU3915	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.3.CleanUp.ReferenceOTU4401	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.4.CleanUp.ReferenceOTU5167	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.4.CleanUp.ReferenceOTU11737	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
249330	Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	<i>Microlunatus</i>	not assigned
New.0.CleanUp.ReferenceOTU4209	Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	<i>Microlunatus</i>	not assigned
998905	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Mycoplana</i>	not assigned
593163	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Paucibacter</i>	not assigned
207866	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
210344	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.2.CleanUp.ReferenceOTU211	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
279358	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenylobacterium</i>	not assigned
New.0.CleanUp.ReferenceOTU8673	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenylobacterium</i>	not assigned
New.1.CleanUp.ReferenceOTU1050	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenylobacterium</i>	not assigned
345333	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Phyllobacterium</i>	not assigned
211171	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Polaromonas</i>	not assigned
New.3.CleanUp.ReferenceOTU5359	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Polaromonas</i>	not assigned
3314521	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
252345	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>Pseudoxanthomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU4429	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Ramlibacter</i>	not assigned
New.0.CleanUp.ReferenceOTU10000	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Ramlibacter</i>	not assigned
New.1.CleanUp.ReferenceOTU1726	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Ramlibacter</i>	not assigned
103410	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Rhizobium</i>	not assigned
222792	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
358785	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
317632	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned

545247	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
616682	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
1638797	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
210914	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.0.CleanUp.ReferenceOTU4241	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.0.CleanUp.ReferenceOTU9193	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU99	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU1979	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.2.CleanUp.ReferenceOTU3236	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.3.CleanUp.ReferenceOTU2305	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.3.CleanUp.ReferenceOTU3855	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU1289	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU1675	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU802	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
New.1.CleanUp.ReferenceOTU915	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
New.4.CleanUp.ReferenceOTU8738	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
1003206	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU10354	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned
805685	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>Thermomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU1960	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>Thermomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU2939	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>Thermomonas</i>	not assigned
995978	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Variovorax</i>	not assigned
New.3.CleanUp.ReferenceOTU6971	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Variovorax</i>	not assigned
165771	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	not assigned	not assigned
859313	Actinobacteria	Acidimicrobiia	Acidimicrobiales	C111	not assigned	not assigned
4395040	Acidobacteria	Solibacteres	Solibacterales	[Bryobacteraceae]	not assigned	not assigned
759507	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU1714	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	not assigned	not assigned
New.3.CleanUp.ReferenceOTU855	Firmicutes	Bacilli	Bacillales	Bacillaceae	not assigned	not assigned
1015820	Actinobacteria	Acidimicrobiia	Acidimicrobiales	C111	not assigned	not assigned

	968464	Actinobacteria	Acidimicrobiia	Acidimicrobiales	C111	not assigned	not assigned
New.3.CleanUp.Reference	OTU6138	Actinobacteria	Acidimicrobiia	Acidimicrobiales	C111	not assigned	not assigned
	3774028	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU9791	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	not assigned	not assigned
	912263	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
	363617	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
	545016	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
	1068155	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
	693348	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
	241123	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU2121	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU3451	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU5301	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU6720	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.1.CleanUp.Reference	OTU583	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
	799231	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
	589483	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU274	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU2355	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU5418	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU5587	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU11073	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.3.CleanUp.Reference	OTU5266	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
	544711	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU2877	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU6745	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	not assigned	not assigned
	854368	Actinobacteria	Acidimicrobiia	Acidimicrobiales	EB1017	not assigned	not assigned
	1027418	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	not assigned	not assigned
New.0.CleanUp.Reference	OTU6303	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	not assigned	not assigned
	962736	Proteobacteria	Gammaproteobacteria	HTCC2188	HTCC2089	not assigned	not assigned

819885	Proteobacteria	Gammaproteobacteria	HTCC2188	HTCC2089	not assigned	not assigned
204335	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	not assigned	not assigned
215375	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU4459	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	not assigned	not assigned
4424338	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	not assigned	not assigned
New.2.CleanUp.ReferenceOTU2676	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	not assigned	not assigned
220524	Actinobacteria	Actinobacteria	Actinomycetales	Nakamurellaceae	not assigned	not assigned
539866	Proteobacteria	Gammaproteobacteria	Thiotrichales	Piscirickettsiaceae	not assigned	not assigned
709657	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
564004	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
810700	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
831407	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU4104	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
758928	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	not assigned	not assigned
527397	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
1059762	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
4373617	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
775149	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
1106653	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU3078	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU4846	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU4994	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU7347	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8554	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8889	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU19	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU1526	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU2121	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU2721	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.2.CleanUp.ReferenceOTU1387	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned

New.2.CleanUp.ReferenceOTU6790	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.3.CleanUp.ReferenceOTU3355	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.3.CleanUp.ReferenceOTU5233	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.4.CleanUp.ReferenceOTU8136	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU10009	Actinobacteria	Thermoleophila	Solirubrobacterales	Solirubrobacteraceae	not assigned	not assigned
917888	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Sphingobacteriaceae	not assigned	not assigned
1135798	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8799	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU1501	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	not assigned	not assigned
539907	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	not assigned	not assigned
142384	Proteobacteria	Betaproteobacteria	A21b	UD5	not assigned	not assigned
945478	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	not assigned	not assigned
737110	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	not assigned	not assigned
New.3.CleanUp.ReferenceOTU6334	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	not assigned	not assigned
New.4.CleanUp.ReferenceOTU1724	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	not assigned	not assigned
410072	Actinobacteria	Acidimicrobiia	Acidimicrobiales	not assigned	not assigned	not assigned
New.2.CleanUp.ReferenceOTU5595	Firmicutes	Bacilli	Bacillales	not assigned	not assigned	not assigned
222768	Proteobacteria	Alphaproteobacteria	Ellin329	not assigned	not assigned	not assigned
399818	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
591340	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
698517	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
216418	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU9	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU2144	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
New.3.CleanUp.ReferenceOTU3206	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
New.4.CleanUp.ReferenceOTU12858	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
113261	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
1021984	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
832626	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
540592	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned

New.0.CleanUp.ReferenceOTU8025	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
800292	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	not assigned	not assigned
583294	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU10526	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	not assigned	not assigned
216643	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
328181	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
818282	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU1851	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU2540	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU6011	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8063	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
New.1.CleanUp.ReferenceOTU2366	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
New.3.CleanUp.ReferenceOTU7464	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
807804	Acidobacteria	Solibacteres	Solibacterales	not assigned	not assigned	not assigned
4395045	Acidobacteria	Solibacteres	Solibacterales	not assigned	not assigned	not assigned
205900	Acidobacteria	Solibacteres	Solibacterales	not assigned	not assigned	not assigned
619918	Acidobacteria	Solibacteres	Solibacterales	not assigned	not assigned	not assigned
570595	Acidobacteria	Solibacteres	Solibacterales	not assigned	not assigned	not assigned
113674	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
223126	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
901995	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
1090634	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU2451	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU9530	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
583489	Proteobacteria	Betaproteobacteria	not assigned	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU9789	Proteobacteria	Betaproteobacteria	not assigned	not assigned	not assigned	not assigned
New.2.CleanUp.ReferenceOTU150	Proteobacteria	Betaproteobacteria	not assigned	not assigned	not assigned	not assigned
New.3.CleanUp.ReferenceOTU4583	Proteobacteria	Gammaproteobacteria	not assigned	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8883	Gemmatimonadetes	Gemm-1	not assigned	not assigned	not assigned	not assigned

Table S10

Rhizosphere: Shared Core OTUs (May, June, October) low LUI: 156						
OTU ID	Phylum	Class	Order	Family	Genus	Species
1052559	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	<i>asaccharolytica</i>
731707	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Variovorax</i>	<i>paradoxus</i>
969805	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Agrobacterium</i>	not assigned
850572	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhizobiaceae	<i>Agrobacterium</i>	not assigned
838594	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
961922	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
580703	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
681987	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Balneimonas</i>	not assigned
318609	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
573135	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
98457	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
573764	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
4377104	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
1105814	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
580625	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
811449	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Caulobacter</i>	not assigned
866365	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Caulobacter</i>	not assigned
849118	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
573013	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
New.0.CleanUp.ReferenceOTU4830	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
1072673	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
166064	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	<i>Janthinobacterium</i>	not assigned
989109	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
1109964	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
136151	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
343503	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned

573258	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.0.CleanUp.ReferenceOTU8268	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.1.CleanUp.ReferenceOTU2902	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
620684	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
547097	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
571263	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
4396454	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
689696	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
583766	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
672144	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU3919	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU7272	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.1.CleanUp.ReferenceOTU2316	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
210344	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
279358	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenylobacterium</i>	not assigned
New.0.CleanUp.ReferenceOTU8673	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenylobacterium</i>	not assigned
345333	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Phyllobacterium</i>	not assigned
211171	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Polaromonas</i>	not assigned
3314521	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
252345	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>Pseudoxanthomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU4429	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Ramlibacter</i>	not assigned
New.1.CleanUp.ReferenceOTU1726	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Ramlibacter</i>	not assigned
222792	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
358785	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
317632	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
545247	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
616682	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
1638797	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
210914	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.0.CleanUp.ReferenceOTU4241	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned

New.0.CleanUp.ReferenceOTU9193	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU99	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU1979	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU802	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
New.1.CleanUp.ReferenceOTU915	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
1003206	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU10354	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned
805685	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>Thermomonas</i>	not assigned
4395040	Acidobacteria	Solibacteres	Solibacterales	[Bryobacteraceae]	not assigned	not assigned
New.0.CleanUp.ReferenceOTU1714	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	not assigned	not assigned
1015820	Actinobacteria	Acidimicrobiia	Acidimicrobiales	C111	not assigned	not assigned
363617	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
1068155	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU3451	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU5301	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU6720	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU274	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU5418	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU5587	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU11073	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	not assigned	not assigned
544711	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU6745	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	not assigned	not assigned
1027418	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU6303	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	not assigned	not assigned
962736	Proteobacteria	Gammaproteobacteria	HTCC2188	HTCC2089	not assigned	not assigned
215375	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU4459	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	not assigned	not assigned
709657	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
564004	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
810700	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned

831407	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
527397	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
4373617	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
775149	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
1106653	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU3078	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU4846	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU4994	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU7347	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8889	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU1526	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU2721	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	not assigned	not assigned
917888	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Sphingobacteriaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8799	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU1501	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	not assigned	not assigned
945478	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	not assigned	not assigned
222768	Proteobacteria	Alphaproteobacteria	Ellin329	not assigned	not assigned	not assigned
399818	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
698517	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
216418	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU2144	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
113261	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
1021984	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU8025	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
800292	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	not assigned	not assigned
583294	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	not assigned	not assigned
216643	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
328181	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
818282	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	not assigned	not assigned
807804	Acidobacteria	Solibacteres	Solibacterales	not assigned	not assigned	not assigned

4395045	Acidobacteria	Solibacteres	Solibacterales	not assigned	not assigned	not assigned
113674	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
901995	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
1090634	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU2451	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU9530	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	not assigned	not assigned
583489	Proteobacteria	Betaproteobacteria	not assigned	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU9789	Proteobacteria	Betaproteobacteria	not assigned	not assigned	not assigned	not assigned
817874	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus solibacter</i>	not assigned
New.0.CleanUp.ReferenceOTU6614	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
331282	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.0.CleanUp.ReferenceOTU7994	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>Niabella</i>	not assigned
941803	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Novosphingobium</i>	not assigned
976441	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Sphingobacteriaceae	<i>Pedobacter</i>	not assigned
646549	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
398604	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
2025156	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
206752	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU10543	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU2630	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	not assigned	not assigned
809485	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	not assigned	not assigned
2063454	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU5885	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae	not assigned	not assigned
New.1.CleanUp.ReferenceOTU17	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae	not assigned	not assigned
281360	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU5330	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	not assigned	not assigned
New.0.CleanUp.ReferenceOTU7237	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	not assigned	not assigned
578443	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	not assigned	not assigned
828254	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	not assigned	not assigned

New.0.CleanUp.ReferenceOTU6557	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	not assigned	not assigned
576136	Proteobacteria	Alphaproteobacteria	Ellin329	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU1177	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU7598	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	not assigned	not assigned
547926	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	not assigned	not assigned
250522	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	not assigned	not assigned
584598	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	not assigned	not assigned
New.0.CleanUp.ReferenceOTU1969	Proteobacteria	Betaproteobacteria	not assigned	not assigned	not assigned	not assigned
331849	Proteobacteria	Betaproteobacteria	not assigned	not assigned	not assigned	not assigned
513222	Chlorobi	SJA-28	not assigned	not assigned	not assigned	not assigned
551999	Bacteroidetes	VC2_1_Bac22	not assigned	not assigned	not assigned	not assigned

Table S11

Bulk soil: Shared Core OTUs (May, June, October) high LUI: 206						
OTU ID	Phylum	Class	Order	Family	Genus	Species
545324	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	<i>Clostridium</i>	<i>bowmanii</i>
1069076	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>Adhaeribacter</i>	not assigned
New.0.CleanUp.ReferenceOTU10984	Proteobacteria	Alphaproteobacteria	Rhizobiales	Rhodobiaceae	<i>Afjifella</i>	not assigned
New.11.CleanUp.ReferenceOTU75	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Afipia</i>	not assigned
961922	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
838594	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
580703	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
681987	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Balneimonas</i>	not assigned
236922	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
4377104	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
580625	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
573764	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
New.21.CleanUp.ReferenceOTU5246	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
98457	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
New.9.CleanUp.ReferenceOTU5637	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
1105814	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
736463	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
New.4.CleanUp.ReferenceOTU3180	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
New.18.CleanUp.ReferenceOTU9884	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
New.3.CleanUp.ReferenceOTU7152	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
New.10.CleanUp.ReferenceOTU18200	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
136297	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned

817874	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
576059	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
849118	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
New.0.CleanUp.ReferenceOTU8431	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
1072673	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
New.17.CleanUp.ReferenceOTU1700	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
701911	Proteobacteria	Deltaproteobacteria	Desulfuromonadales	Geobacteraceae	<i>Geobacter</i>	not assigned
New.4.CleanUp.ReferenceOTU9070	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.3.CleanUp.ReferenceOTU80	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.10.CleanUp.ReferenceOTU4474	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.0.CleanUp.ReferenceOTU8268	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.3.CleanUp.ReferenceOTU6571	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.2.CleanUp.ReferenceOTU4934	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
331282	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.1.CleanUp.ReferenceOTU2902	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
343503	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
136151	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
547097	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
571263	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
620684	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
New.7.CleanUp.ReferenceOTU7143	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
New.5.CleanUp.ReferenceOTU9623	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.1.CleanUp.ReferenceOTU2316	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.10.CleanUp.ReferenceOTU5569	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU7272	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU7828	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.4.CleanUp.ReferenceOTU5167	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
583766	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
672144	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned

173004	Nitrospirae	Nitrospira	Nitrospirales	Nitrospiraceae	<i>Nitrospira</i>	not assigned
New.22.CleanUp.ReferenceOTU21670	Proteobacteria	Betaproteobacteria	A21b	UD5	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU3451	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU6050	Proteobacteria	Betaproteobacteria	A21b	UD5	<i>not assigned</i>	not assigned
945478	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>not assigned</i>	not assigned
818282	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	<i>not assigned</i>	not assigned
223126	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
737110	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>not assigned</i>	not assigned
205900	Acidobacteria	Solibacteres	Solibacterales	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU7347	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
1068155	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU3175	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU2721	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
539336	Acidobacteria	PAUC37f	not assigned	not assigned	<i>not assigned</i>	not assigned
New.2.CleanUp.ReferenceOTU2676	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU38	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
204335	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU8554	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU5964	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
511074	Acidobacteria	Solibacteres	Solibacterales	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU274	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>not assigned</i>	not assigned
New.22.CleanUp.ReferenceOTU17856	Acidobacteria	Solibacteres	Solibacterales	[Bryobacteraceae]	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU9530	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
142384	Proteobacteria	Betaproteobacteria	A21b	UD5	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU6011	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	<i>not assigned</i>	not assigned
New.7.CleanUp.ReferenceOTU6188	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4763	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
813632	Proteobacteria	Deltaproteobacteria	Myxococcales	OM27	<i>not assigned</i>	not assigned
1044319	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
4395040	Acidobacteria	Solibacteres	Solibacterales	[Bryobacteraceae]	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2421	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned

New.5.CleanUp.ReferenceOTU5805	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>not assigned</i>	not assigned
966576	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
New.23.CleanUp.ReferenceOTU3592	Acidobacteria	Solibacteres	Solibacterales	not assigned	<i>not assigned</i>	not assigned
New.6.CleanUp.ReferenceOTU1636	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.7.CleanUp.ReferenceOTU1208	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU8799	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU10526	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	<i>not assigned</i>	not assigned
4395045	Acidobacteria	Solibacteres	Solibacterales	not assigned	<i>not assigned</i>	not assigned
328181	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	<i>not assigned</i>	not assigned
854368	Actinobacteria	Acidimicrobiia	Acidimicrobiales	EB1017	<i>not assigned</i>	not assigned
131337	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU1501	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>not assigned</i>	not assigned
New.9.CleanUp.ReferenceOTU981	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU4846	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
243855	Proteobacteria	Deltaproteobacteria	[Entotheonellales]	[Entotheonellaceae]	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4994	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4981	Proteobacteria	Deltaproteobacteria	Syntrophobacteriales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU5687	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
962736	Proteobacteria	Gammaproteobacteria	HTCC2188	HTCC2089	<i>not assigned</i>	not assigned
698517	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
215375	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
4373617	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2355	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU14172	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
775149	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.22.CleanUp.ReferenceOTU8625	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU9635	Proteobacteria	Gammaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU1940	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
4424338	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
583489	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU5301	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned

New.2.CleanUp.ReferenceOTU1387	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.7.CleanUp.ReferenceOTU7457	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
206752	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU3936	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU4583	Proteobacteria	Gammaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.2.CleanUp.ReferenceOTU6790	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
576136	Proteobacteria	Alphaproteobacteria	Ellin329	not assigned	<i>not assigned</i>	not assigned
759507	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU9789	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2144	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2451	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
New.24.CleanUp.ReferenceOTU21377	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
254098	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
1044436	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
New.19.CleanUp.ReferenceOTU5725	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.12.CleanUp.ReferenceOTU1153	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
113261	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	<i>not assigned</i>	not assigned
New.14.CleanUp.ReferenceOTU265	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU8119	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
New.14.CleanUp.ReferenceOTU6502	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
800292	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU1945	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
807804	Acidobacteria	Solibacteres	Solibacterales	not assigned	<i>not assigned</i>	not assigned
539907	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU855	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU6745	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU8013	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	<i>not assigned</i>	not assigned
564004	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.2.CleanUp.ReferenceOTU5595	Firmicutes	Bacilli	Bacillales	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU3078	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
250522	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	<i>not assigned</i>	not assigned

New.0.CleanUp.ReferenceOTU2877	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU2638	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>not assigned</i>	not assigned
113674	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
216418	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU1526	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
539866	Proteobacteria	Gammaproteobacteria	Thiotrichales	Piscirickettsiaceae	<i>not assigned</i>	not assigned
New.18.CleanUp.ReferenceOTU3336	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>not assigned</i>	not assigned
1027418	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	<i>not assigned</i>	not assigned
831407	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.23.CleanUp.ReferenceOTU3077	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4459	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
New.22.CleanUp.ReferenceOTU6952	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
513222	Chlorobi	SJA-28	not assigned	not assigned	<i>not assigned</i>	not assigned
751555	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.7.CleanUp.ReferenceOTU7401	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
819885	Proteobacteria	Gammaproteobacteria	HTCC2188	HTCC2089	<i>not assigned</i>	not assigned
527397	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
1090634	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU2121	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.6.CleanUp.ReferenceOTU1268	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
1111437	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
591683	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
207866	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
210344	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.0.CleanUp.ReferenceOTU2136	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
203611	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.10.CleanUp.ReferenceOTU16521	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.2.CleanUp.ReferenceOTU211	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.16.CleanUp.ReferenceOTU3113	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
279358	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenyllobacterium</i>	not assigned
345333	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Phyllobacterium</i>	not assigned

New.6.CleanUp.ReferenceOTU1087	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.6.CleanUp.ReferenceOTU4928	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Ramlibacter</i>	not assigned
253167	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.7.CleanUp.ReferenceOTU5146	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.3.CleanUp.ReferenceOTU2542	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.2.CleanUp.ReferenceOTU6889	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
1638797	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU1979	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
358785	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
210914	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.3.CleanUp.ReferenceOTU2305	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU4519	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.2.CleanUp.ReferenceOTU3236	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU1675	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.7.CleanUp.ReferenceOTU4598	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.10.CleanUp.ReferenceOTU14995	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
317632	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU99	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.3.CleanUp.ReferenceOTU3855	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
2025156	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.12.CleanUp.ReferenceOTU6900	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
616682	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
545247	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.0.CleanUp.ReferenceOTU4241	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
222792	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU8738	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
New.1.CleanUp.ReferenceOTU802	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
New.1.CleanUp.ReferenceOTU915	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
1003206	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU3375	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned
805685	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	<i>Thermomonas</i>	not assigned

Table S12

Bulk soil: Shared Core OTUs (May, June, October) low LUI: 220						
OTU ID	Phylum	Class	Order	Family	Genus	Species
1052559	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	<i>asaccharolytica</i>
545324	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	<i>Clostridium</i>	<i>bowmanii</i>
New.10.CleanUp.ReferenceOTU12056	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	<i>umsongensis</i>
1638797	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.11.CleanUp.ReferenceOTU75	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Afipia</i>	not assigned
961922	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
838594	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
580703	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
New.15.CleanUp.ReferenceOTU7158	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
New.8.CleanUp.ReferenceOTU8671	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>Bacillus</i>	not assigned
681987	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Balneimonas</i>	not assigned
4377104	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
580625	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
573764	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
New.21.CleanUp.ReferenceOTU5246	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
98457	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
New.9.CleanUp.ReferenceOTU5637	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
1105814	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
573135	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>	not assigned
New.10.CleanUp.ReferenceOTU18200	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
136297	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
817874	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
576059	Acidobacteria	Solibacteres	Solibacterales	Solibacteraceae	<i>Candidatus Solibacter</i>	not assigned
849118	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
New.0.CleanUp.ReferenceOTU4830	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Devosia</i>	not assigned
1072673	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
New.17.CleanUp.ReferenceOTU1700	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned

New.0.CleanUp.ReferenceOTU6614	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>	not assigned
New.0.CleanUp.ReferenceOTU8268	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.3.CleanUp.ReferenceOTU6571	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.2.CleanUp.ReferenceOTU4934	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
331282	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.1.CleanUp.ReferenceOTU2902	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
343503	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
136151	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
New.0.CleanUp.ReferenceOTU6126	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
1109964	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Kaistobacter</i>	not assigned
543156	Proteobacteria	Alphaproteobacteria	Rhizobiales	Xanthobacteraceae	<i>Labrys</i>	not assigned
547097	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
571263	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
620684	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
New.7.CleanUp.ReferenceOTU7143	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
New.26.CleanUp.ReferenceOTU2077	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Mesorhizobium</i>	not assigned
New.0.CleanUp.ReferenceOTU7828	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.4.CleanUp.ReferenceOTU5167	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
583766	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
672144	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
4396454	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
226906	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.22.CleanUp.ReferenceOTU24740	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.0.CleanUp.ReferenceOTU1365	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.10.CleanUp.ReferenceOTU10097	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Methylibium</i>	not assigned
New.8.CleanUp.ReferenceOTU4846	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
243855	Proteobacteria	Deltaproteobacteria	[Entotheonellales]	[Entotheonellaceae]	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4994	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4981	Proteobacteria	Deltaproteobacteria	Syntrophobacteriales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU5687	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
962736	Proteobacteria	Gammaproteobacteria	HTCC2188	HTCC2089	<i>not assigned</i>	not assigned

698517	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
215375	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
4373617	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2355	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU14172	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
775149	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.22.CleanUp.ReferenceOTU8625	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU9635	Proteobacteria	Gammaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU1940	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
4424338	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
583489	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU5301	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.2.CleanUp.ReferenceOTU1387	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.7.CleanUp.ReferenceOTU7457	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
206752	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU3936	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU4583	Proteobacteria	Gammaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.2.CleanUp.ReferenceOTU6790	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
576136	Proteobacteria	Alphaproteobacteria	Ellin329	not assigned	<i>not assigned</i>	not assigned
759507	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU9789	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2144	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2451	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
New.24.CleanUp.ReferenceOTU21377	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
254098	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
1044436	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
New.19.CleanUp.ReferenceOTU5725	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.12.CleanUp.ReferenceOTU1153	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
113261	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	<i>not assigned</i>	not assigned
New.14.CleanUp.ReferenceOTU265	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU8119	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned

New.14.CleanUp.ReferenceOTU6502	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
800292	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU1945	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
807804	Acidobacteria	Solibacteres	Solibacterales	not assigned	<i>not assigned</i>	not assigned
539907	Proteobacteria	Deltaproteobacteria	Syntrophobacterales	Syntrophobacteraceae	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU855	Firmicutes	Bacilli	Bacillales	Bacillaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU6745	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU8013	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	<i>not assigned</i>	not assigned
564004	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.2.CleanUp.ReferenceOTU5595	Firmicutes	Bacilli	Bacillales	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU3078	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
250522	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2877	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>not assigned</i>	not assigned
New.8.CleanUp.ReferenceOTU2638	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>not assigned</i>	not assigned
113674	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
216418	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU1526	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
539866	Proteobacteria	Gammaproteobacteria	Thiotrichales	Piscirickettsiaceae	<i>not assigned</i>	not assigned
New.18.CleanUp.ReferenceOTU3336	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>not assigned</i>	not assigned
1027418	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Erythrobacteraceae	<i>not assigned</i>	not assigned
831407	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.23.CleanUp.ReferenceOTU3077	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4459	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
New.22.CleanUp.ReferenceOTU6952	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
513222	Chlorobi	SJA-28	not assigned	not assigned	<i>not assigned</i>	not assigned
751555	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.7.CleanUp.ReferenceOTU7401	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>not assigned</i>	not assigned
819885	Proteobacteria	Gammaproteobacteria	HTCC2188	HTCC2089	<i>not assigned</i>	not assigned
527397	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
1090634	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU2121	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned

New.6.CleanUp.ReferenceOTU1268	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
1111437	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU230	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU1791	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU21512	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
758928	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	<i>not assigned</i>	not assigned
New.26.CleanUp.ReferenceOTU24479	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.14.CleanUp.ReferenceOTU3008	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.3.CleanUp.ReferenceOTU4159	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
832626	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	<i>not assigned</i>	not assigned
New.26.CleanUp.ReferenceOTU624	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4846	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.24.CleanUp.ReferenceOTU22461	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU490	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU10762	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
New.5.CleanUp.ReferenceOTU2437	Proteobacteria	Gammaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
399818	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
New.25.CleanUp.ReferenceOTU10034	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
547926	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	<i>not assigned</i>	not assigned
4339472	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>not assigned</i>	not assigned
709657	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.25.CleanUp.ReferenceOTU27075	Proteobacteria	Betaproteobacteria	not assigned	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU2357	Proteobacteria	Betaproteobacteria	SC-I-84	not assigned	<i>not assigned</i>	not assigned
241220	Actinobacteria	Acidimicrobiia	Acidimicrobiales	C111	<i>not assigned</i>	not assigned
New.4.CleanUp.ReferenceOTU11338	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU5885	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Hyphomonadaceae	<i>not assigned</i>	not assigned
859313	Actinobacteria	Acidimicrobiia	Acidimicrobiales	C111	<i>not assigned</i>	not assigned
New.13.CleanUp.ReferenceOTU9811	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	<i>not assigned</i>	not assigned
1008533	Bacteroidetes	Cytophagia	Cytophagales	Cytophagaceae	<i>not assigned</i>	not assigned
540592	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	<i>not assigned</i>	not assigned
542933	Actinobacteria	Acidimicrobiia	Acidimicrobiales	EB1017	<i>not assigned</i>	not assigned

New.23.CleanUp.ReferenceOTU12116	Proteobacteria	Alphaproteobacteria	Rhizobiales	not assigned	<i>not assigned</i>	not assigned
New.10.CleanUp.ReferenceOTU25647	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU2728	Actinobacteria	Actinobacteria	Actinomycetales	not assigned	<i>not assigned</i>	not assigned
566368	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.17.CleanUp.ReferenceOTU1263	Bacteroidetes	[Saprospirae]	[Saprospirales]	Saprospiraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU1714	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	<i>not assigned</i>	not assigned
New.26.CleanUp.ReferenceOTU11842	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.26.CleanUp.ReferenceOTU23089	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>not assigned</i>	not assigned
New.16.CleanUp.ReferenceOTU7478	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
281360	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	<i>not assigned</i>	not assigned
New.25.CleanUp.ReferenceOTU10163	Bacteroidetes	[Saprospirae]	[Saprospirales]	Chitinophagaceae	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU1371	Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	<i>not assigned</i>	not assigned
4302753	Proteobacteria	Deltaproteobacteria	Myxococcales	Cystobacteraceae	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU4683	Proteobacteria	Betaproteobacteria	Ellin6067	not assigned	<i>not assigned</i>	not assigned
New.1.CleanUp.ReferenceOTU2248	Proteobacteria	Deltaproteobacteria	[Entotheonellales]	[Entotheonellaceae]	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU505	Proteobacteria	Deltaproteobacteria	Myxococcales	not assigned	<i>not assigned</i>	not assigned
New.0.CleanUp.ReferenceOTU8454	Proteobacteria	Deltaproteobacteria	[Entotheonellales]	[Entotheonellaceae]	<i>not assigned</i>	not assigned
1051517	Firmicutes	Bacilli	Bacillales	not assigned	<i>not assigned</i>	not assigned
901995	Bacteroidetes	Sphingobacteria	Sphingobacteriales	not assigned	<i>not assigned</i>	not assigned
207866	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
210344	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.0.CleanUp.ReferenceOTU2136	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
203611	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.10.CleanUp.ReferenceOTU16521	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.2.CleanUp.ReferenceOTU211	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.16.CleanUp.ReferenceOTU3113	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
New.25.CleanUp.ReferenceOTU615	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Pedomicrobium</i>	not assigned
279358	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenyllobacterium</i>	not assigned
New.1.CleanUp.ReferenceOTU1050	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenyllobacterium</i>	not assigned
New.0.CleanUp.ReferenceOTU8673	Proteobacteria	Alphaproteobacteria	Caulobacterales	Caulobacteraceae	<i>Phenyllobacterium</i>	not assigned
345333	Proteobacteria	Alphaproteobacteria	Rhizobiales	Phyllobacteriaceae	<i>Phyllobacterium</i>	not assigned

New.6.CleanUp.ReferenceOTU1087	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
3314521	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.5.CleanUp.ReferenceOTU9448	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>	not assigned
New.1.CleanUp.ReferenceOTU1979	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
358785	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
210914	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.3.CleanUp.ReferenceOTU2305	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU4519	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.2.CleanUp.ReferenceOTU3236	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU1675	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.7.CleanUp.ReferenceOTU4598	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.10.CleanUp.ReferenceOTU14995	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
317632	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU99	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.3.CleanUp.ReferenceOTU3855	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
2025156	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.12.CleanUp.ReferenceOTU6900	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
616682	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
545247	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.0.CleanUp.ReferenceOTU4241	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
222792	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU6595	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.4.CleanUp.ReferenceOTU1289	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.0.CleanUp.ReferenceOTU9193	Proteobacteria	Alphaproteobacteria	Rhizobiales	Hyphomicrobiaceae	<i>Rhodoplanes</i>	not assigned
New.1.CleanUp.ReferenceOTU802	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
New.1.CleanUp.ReferenceOTU915	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
New.0.CleanUp.ReferenceOTU9179	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Rubrivivax</i>	not assigned
555945	Firmicutes	Clostridia	Clostridiales	Clostridiaceae	<i>SMB53</i>	not assigned
1003206	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned
New.0.CleanUp.ReferenceOTU10354	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned
New.5.CleanUp.ReferenceOTU3637	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>	not assigned

New.0.CleanUp.ReferenceOTU3375	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned
New.16.CleanUp.ReferenceOTU180	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned
New.1.CleanUp.ReferenceOTU1422	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned
New.2.CleanUp.ReferenceOTU2537	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned
New.0.CleanUp.ReferenceOTU10336	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned
New.22.CleanUp.ReferenceOTU24001	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned
New.13.CleanUp.ReferenceOTU6645	Proteobacteria	Gammaproteobacteria	Xanthomonadales	Sinobacteraceae	<i>Steroidobacter</i>	not assigned