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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Análise em amostras de solo

Cliente : Fundação Bio-Rio / Petrobras – UN-BS
 Endereço : Av. Carlos Chagas Filho, nº 791
 Cidade Universitária - Rio de Janeiro - RJ
 Localização do Projeto : Bacia de Santos
 Data da Coleta : 15 e 16.12.2009
 Entrega das amostras : 18.12.2009
 Início dos ensaios/extração : 18.12.2009 13:11
 Término dos ensaios : 09.04.2010

INNOLAB do Brasil Ltda.
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Projeto : PAI-projeto de Avaliação de Impactos da Bacia de Santos
 Gerente do Projeto : Cristina Falcão

Parâmetro	MLZ # 21-R1 (0-2cm) (µg/kg)	MLZ # 21-R2 (0-2cm) (µg/kg)	MLZ # 21-R3 (0-2cm) (µg/kg)	MLZ # 22-R1 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	nd	nd	nd	10	5
n-C12	<10	14	<10	<10	10	5
n-C13	nd	nd	nd	nd	10	5
n-C14	14	23	11	16	10	5
n-C15	nd	17	nd	<10	10	5
n-C16	nd	nd	nd	nd	10	5
n-C17	<10	<10	<10	nd	10	5
n-C18	<10	<10	<10	<10	10	5
n-C19	nd	nd	nd	nd	10	5
n-C20	nd	nd	nd	<10	10	5
n-C21	14	21	14	16	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	21	33	<10	12	10	5
n-C25	20	28	10	14	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	12	10	nd	<10	10	5
n-C29	<10	nd	nd	<10	10	5
n-C30	<10	<10	nd	<10	10	5

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Parâmetro	MLZ # 21-R1 (0-2cm) (µg/kg)	MLZ # 21-R2 (0-2cm) (µg/kg)	MLZ # 21-R3 (0-2cm) (µg/kg)	MLZ # 22-R1 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	35	61	26	30	10	5
n-C32	162	304	116	nd	10	5
n-C33	80	170	51	59	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	nd	nd	nd	10	5
n-C36	27	19	nd	20	10	5
n-C37	19	nd	nd	nd	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 22-R2 (0-2cm) (µg/kg)	MLZ # 22-R3 (0-2cm) (µg/kg)	MLZ # 23-R1 (0-2cm) (µg/kg)	MLZ # 23-R2 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	<10	<10	nd	10	5
n-C12	14	11	16	<10	10	5
n-C13	nd	nd	<10	nd	10	5
n-C14	14	14	<10	nd	10	5
n-C15	<10	24	10	<10	10	5
n-C16	nd	11	nd	nd	10	5
n-C17	nd	13	12	<10	10	5
n-C18	nd	31	14	12	10	5
n-C19	nd	<10	12	<10	10	5
n-C20	nd	11	15	21	10	5
n-C21	24	<10	nd	<10	10	5
n-C22	nd	<10	nd	<10	10	5
n-C23	nd	<10	<10	11	10	5
n-C24	nd	12	nd	nd	10	5
n-C25	<10	16	<10	nd	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	nd	<10	<10	11	10	5
n-C29	<10	16	78	23	10	5
n-C30	<10	<10	nd	nd	10	5

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Parâmetro	MLZ # 22-R2 (0-2cm) (µg/kg)	MLZ # 22-R3 (0-2cm) (µg/kg)	MLZ # 23-R1 (0-2cm) (µg/kg)	MLZ # 23-R2 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	42	43	60	59	10	5
n-C32	183	175	nd	nd	10	5
n-C33	76	62	183	nd	10	5
n-C34	nd	nd	nd	16	10	5
n-C35	nd	nd	14	nd	10	5
n-C36	<10	155	36	74	10	5
n-C37	nd	<10	nd	nd	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 23-R3 (0-2cm) (µg/kg)	MLZ # 24-R1 (0-2cm) (µg/kg)	MLZ # 24-R2 (0-2cm) (µg/kg)	MLZ # 24-R3 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	<10	nd	nd	nd	10	5
n-C9	13	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	11	nd	nd	nd	10	5
n-C12	<10	<10	nd	<10	10	5
n-C13	nd	nd	nd	nd	10	5
n-C14	<10	16	21	18	10	5
n-C15	<10	<10	18	nd	10	5
n-C16	14	nd	<10	nd	10	5
n-C17	81	<10	<10	nd	10	5
n-C18	508	nd	14	nd	10	5
n-C19	<10	nd	<10	nd	10	5
n-C20	35	nd	<10	nd	10	5
n-C21	nd	15	17	16	10	5
n-C22	<10	nd	<10	nd	10	5
n-C23	<10	nd	nd	nd	10	5
n-C24	<10	17	14	nd	10	5
n-C25	16	nd	13	<10	10	5
n-C26	12	nd	<10	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	13	nd	12	nd	10	5
n-C29	58	nd	nd	nd	10	5
n-C30	18	nd	nd	nd	10	5

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Parâmetro	MLZ # 23-R3 (0-2cm) (µg/kg)	MLZ # 24-R1 (0-2cm) (µg/kg)	MLZ # 24-R2 (0-2cm) (µg/kg)	MLZ # 24-R3 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	73	25	39	32	10	5
n-C32	nd	92	199	153	10	5
n-C33	nd	56	89	55	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	nd	nd	nd	10	5
n-C36	46	58	106	25	10	5
n-C37	nd	nd	nd	nd	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 31-R1 (0-2cm) (µg/kg)	MLZ # 31-R2 (0-2cm) (µg/kg)	MLZ # 31-R3 (0-2cm) (µg/kg)	MLZ # 32-R1 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	nd	nd	nd	10	5
n-C12	nd	nd	nd	nd	10	5
n-C13	nd	nd	nd	nd	10	5
n-C14	12	<10	<10	14	10	5
n-C15	nd	nd	nd	nd	10	5
n-C16	nd	nd	nd	nd	10	5
n-C17	nd	nd	nd	<10	10	5
n-C18	<10	nd	nd	nd	10	5
n-C19	nd	11	nd	nd	10	5
n-C20	nd	nd	nd	nd	10	5
n-C21	nd	14	11	<10	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	15	nd	12	12	10	5
n-C25	12	12	<10	11	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	22	<10	26	46	10	5
n-C29	nd	<10	nd	<10	10	5
n-C30	<10	<10	nd	<10	10	5

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Parâmetro	MLZ # 31-R1 (0-2cm) (µg/kg)	MLZ # 31-R2 (0-2cm) (µg/kg)	MLZ # 31-R3 (0-2cm) (µg/kg)	MLZ # 32-R1 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	19	48	27	70	10	5
n-C32	86	nd	nd	314	10	5
n-C33	42	112	60	111	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	nd	nd	nd	10	5
n-C36	58	23	18	33	10	5
n-C37	nd	nd	nd	nd	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 32-R2 (0-2cm) (µg/kg)	MLZ # 32-R3 (0-2cm) (µg/kg)	MLZ # 33-R1 (0-2cm) (µg/kg)	MLZ # 33-R2 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	<10	nd	nd	nd	10	5
n-C12	<10	nd	26	nd	10	5
n-C13	<10	nd	nd	nd	10	5
n-C14	<10	<10	21	23	10	5
n-C15	nd	12	<10	21	10	5
n-C16	nd	nd	nd	16	10	5
n-C17	nd	nd	<10	20	10	5
n-C18	nd	nd	nd	33	10	5
n-C19	nd	nd	nd	<10	10	5
n-C20	nd	nd	<10	11	10	5
n-C21	nd	nd	23	18	10	5
n-C22	nd	nd	nd	<10	10	5
n-C23	nd	nd	nd	<10	10	5
n-C24	nd	nd	<10	14	10	5
n-C25	nd	<10	17	14	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	nd	nd	10	<10	10	5
n-C29	<10	<10	14	13	10	5
n-C30	<10	<10	11	<10	10	5

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Parâmetro	MLZ # 32-R2 (0-2cm) (µg/kg)	MLZ # 32-R3 (0-2cm) (µg/kg)	MLZ # 33-R1 (0-2cm) (µg/kg)	MLZ # 33-R2 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	<10	26	230	30	10	5
n-C32	nd	nd	nd	nd	10	5
n-C33	nd	64	262	65	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	<10	nd	nd	nd	10	5
n-C36	<10	43	81	123	10	5
n-C37	nd	<10	<10	nd	10	5
n-C38	nd	nd	13	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 33 R3 (0-2cm) (µg/kg)	MLZ # 34 R1 (0-2cm) (µg/kg)	MLZ # 34 R2 (0-2cm) (µg/kg)	MLZ # 34 R3 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	nd	14	nd	10	5
n-C12	11	nd	24	nd	10	5
n-C13	nd	nd	12	nd	10	5
n-C14	15	16	<10	<10	10	5
n-C15	nd	nd	nd	nd	10	5
n-C16	nd	nd	<10	nd	10	5
n-C17	nd	nd	nd	nd	10	5
n-C18	<10	nd	nd	<10	10	5
n-C19	nd	nd	nd	nd	10	5
n-C20	nd	nd	<10	nd	10	5
n-C21	16	<10	nd	nd	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	nd	14	nd	<10	10	5
n-C25	11	13	nd	<10	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	<10	35	nd	18	10	5
n-C29	15	<10	10	<10	10	5
n-C30	nd	nd	<10	nd	10	5

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Parâmetro	MLZ # 33 R3 (0-2cm) (µg/kg)	MLZ # 34 R1 (0-2cm) (µg/kg)	MLZ # 34 R2 (0-2cm) (µg/kg)	MLZ # 34 R3 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	29	24	20	27	10	5
n-C32	nd	nd	13	nd	10	5
n-C33	60	59	24	57	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	nd	<10	nd	10	5
n-C36	65	34	29	47	10	5
n-C37	nd	nd	nd	<10	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 41-R1 (0-2cm) (µg/kg)	MLZ # 41-R2 (0-2cm) (µg/kg)	MLZ # 41-R3 (0-2cm) (µg/kg)	MLZ # 42-R1 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	nd	nd	nd	10	5
n-C12	<10	nd	18	<10	10	5
n-C13	nd	nd	nd	nd	10	5
n-C14	12	13	13	12	10	5
n-C15	nd	nd	nd	nd	10	5
n-C16	nd	nd	nd	nd	10	5
n-C17	<10	nd	nd	nd	10	5
n-C18	<10	nd	<10	nd	10	5
n-C19	nd	nd	nd	nd	10	5
n-C20	nd	nd	nd	nd	10	5
n-C21	nd	nd	nd	nd	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	<10	<10	nd	12	10	5
n-C25	<10	10	nd	15	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	nd	nd	nd	11	10	5
n-C29	<10	nd	nd	<10	10	5
n-C30	<10	<10	nd	<10	10	5

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Parâmetro	MLZ # 41-R1 (0-2cm) (µg/kg)	MLZ # 41-R2 (0-2cm) (µg/kg)	MLZ # 41-R3 (0-2cm) (µg/kg)	MLZ # 42-R1 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	25	31	27	22	10	5
n-C32	nd	nd	nd	nd	10	5
n-C33	54	65	64	49	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	nd	nd	20	10	5
n-C36	18	30	58	62	10	5
n-C37	nd	nd	nd	nd	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 42-R2 (0-2cm) (µg/kg)	MLZ # 42-R3 (0-2cm) (µg/kg)	MLZ # 43-R1 (0-2cm) (µg/kg)	MLZ # 43-R2 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	nd	17	nd	10	5
n-C12	<10	<10	27	<10	10	5
n-C13	nd	nd	15	<10	10	5
n-C14	20	11	30	nd	10	5
n-C15	nd	nd	<10	nd	10	5
n-C16	nd	nd	<10	nd	10	5
n-C17	nd	nd	nd	nd	10	5
n-C18	nd	nd	nd	<10	10	5
n-C19	nd	nd	nd	nd	10	5
n-C20	nd	nd	nd	nd	10	5
n-C21	<10	nd	nd	nd	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	12	<10	nd	nd	10	5
n-C25	14	11	nd	nd	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	11	<10	nd	nd	10	5
n-C29	<10	<10	11	12	10	5
n-C30	<10	<10	<10	13	10	5

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Parâmetro	MLZ # 42-R2 (0-2cm) (µg/kg)	MLZ # 42-R3 (0-2cm) (µg/kg)	MLZ # 43-R1 (0-2cm) (µg/kg)	MLZ # 43-R2 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	27	76	nd	12	10	5
n-C32	nd	nd	nd	nd	10	5
n-C33	74	106	30	60	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	nd	15	17	10	5
n-C36	34	17	37	46	10	5
n-C37	nd	<10	nd	nd	10	5
n-C38	nd	<10	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Parâmetro	MLZ # 43-R3 (0-2cm) (µg/kg)	MLZ # 44-R1 (0-2cm) (µg/kg)	MLZ # 44-R2 (0-2cm) (µg/kg)	MLZ # 44-R3 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	nd	nd	nd	10	5
n-C12	10	11	<10	<10	10	5
n-C13	nd	nd	nd	nd	10	5
n-C14	19	16	nd	<10	10	5
n-C15	nd	<10	nd	nd	10	5
n-C16	nd	nd	nd	nd	10	5
n-C17	nd	nd	nd	nd	10	5
n-C18	<10	nd	<10	nd	10	5
n-C19	nd	nd	nd	nd	10	5
n-C20	nd	nd	nd	nd	10	5
n-C21	12	nd	nd	nd	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	12	13	nd	15	10	5
n-C25	13	14	nd	<10	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	17	<10	<10	<10	10	5
n-C29	nd	nd	<10	nd	10	5
n-C30	30	<10	<10	<10	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Parâmetro	MLZ # 43-R3 (0-2cm) (µg/kg)	MLZ # 44-R1 (0-2cm) (µg/kg)	MLZ # 44-R2 (0-2cm) (µg/kg)	MLZ # 44-R3 (0-2cm) (µg/kg)	L.Q. (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	36	32	nd	34	10	5
n-C32	nd	175	<10	129	10	5
n-C33	84	72	35	69	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	nd	<10	nd	10	5
n-C36	34	49	14	44	10	5
n-C37	nd	nd	nd	<10	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Parâmetro	MLZ # 51-R1 (0-2cm) (µg/kg)	MLZ # 51-R2 (0-2cm) (µg/kg)	MLZ # 51-R3 (0-2cm) (µg/kg)	MLZ # 52-R1 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	13	nd	nd	nd	10	5
n-C12	21	nd	nd	nd	10	5
n-C13	11	nd	nd	nd	10	5
n-C14	<10	<10	<10	nd	10	5
n-C15	nd	nd	nd	nd	10	5
n-C16	<10	nd	nd	<10	10	5
n-C17	nd	nd	nd	<10	10	5
n-C18	nd	nd	nd	<10	10	5
n-C19	<10	nd	nd	nd	10	5
n-C20	nd	nd	nd	nd	10	5
n-C21	nd	nd	nd	nd	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	nd	nd	nd	nd	10	5
n-C25	nd	<10	<10	nd	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	nd	nd	nd	<10	10	5
n-C29	12	<10	nd	14	10	5
n-C30	14	<10	<10	<10	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Parâmetro	MLZ # 51-R1 (0-2cm) (µg/kg)	MLZ # 51-R2 (0-2cm) (µg/kg)	MLZ # 51-R3 (0-2cm) (µg/kg)	MLZ # 52-R1 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	11	27	15	<10	10	5
n-C32	nd	81	71	nd	10	5
n-C33	31	55	33	44	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	11	nd	nd	12	10	5
n-C36	43	48	24	32	10	5
n-C37	nd	<10	nd	<10	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Parâmetro	MLZ # 52 R2 (0-2cm) (µg/kg)	MLZ # 52 R3 (0-2cm) (µg/kg)	MLZ # 53 R1 (0-2cm) (µg/kg)	MLZ # 53 R2 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	<10	<10	nd	13	10	5
n-C12	<10	12	<10	21	10	5
n-C13	<10	<10	<10	11	10	5
n-C14	<10	<10	nd	<10	10	5
n-C15	nd	nd	nd	nd	10	5
n-C16	nd	nd	<10	<10	10	5
n-C17	<10	nd	<10	<10	10	5
n-C18	<10	<10	14	nd	10	5
n-C19	nd	nd	nd	11	10	5
n-C20	nd	nd	<10	nd	10	5
n-C21	nd	<10	nd	nd	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	24	nd	10	5
n-C24	nd	nd	nd	nd	10	5
n-C25	nd	nd	32	<10	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	<10	<10	11	<10	10	5
n-C29	16	14	22	12	10	5
n-C30	13	<10	22	11	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Parâmetro	MLZ # 52 R2 (0-2cm) (µg/kg)	MLZ # 52 R3 (0-2cm) (µg/kg)	MLZ # 53 R1 (0-2cm) (µg/kg)	MLZ # 53 R2 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	71	38	63	44	10	5
n-C32	nd	nd	nd	nd	10	5
n-C33	nd	nd	nd	nd	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	21	21	33	25	10	5
n-C36	51	43	65	31	10	5
n-C37	<10	<10	11	11	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Parâmetro	MLZ # 53 R3 (0-2cm) (µg/kg)	MLZ # 54 R1 (0-2cm) (µg/kg)	MLZ # 54 R2 (0-2cm) (µg/kg)	MLZ # 54 R3 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C8	nd	nd	nd	nd	10	5
n-C9	nd	nd	nd	nd	10	5
n-C10	nd	nd	nd	nd	10	5
n-C11	nd	10	nd	nd	10	5
n-C12	<10	16	<10	<10	10	5
n-C13	nd	<10	nd	<10	10	5
n-C14	17	<10	<10	<10	10	5
n-C15	nd	nd	nd	12	10	5
n-C16	nd	<10	nd	<10	10	5
n-C17	nd	<10	nd	<10	10	5
n-C18	nd	<10	nd	<10	10	5
n-C19	nd	nd	nd	nd	10	5
n-C20	nd	nd	nd	nd	10	5
n-C21	nd	nd	nd	nd	10	5
n-C22	nd	nd	nd	nd	10	5
n-C23	nd	nd	nd	nd	10	5
n-C24	<10	nd	nd	nd	10	5
n-C25	11	nd	<10	<10	10	5
n-C26	nd	nd	nd	nd	10	5
n-C27	nd	nd	nd	nd	10	5
n-C28	<10	<10	nd	<10	10	5
n-C29	nd	25	nd	24	10	5
n-C30	<10	<10	nd	12	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Parâmetro	MLZ # 53 R3 (0-2cm) (µg/kg)	MLZ # 54 R1 (0-2cm) (µg/kg)	MLZ # 54 R2 (0-2cm) (µg/kg)	MLZ # 54 R3 (0-2cm) (µg/kg)	L.Q (µg/kg)	L.D. (µg/kg)
n-Alcanos C8 - C40						
n-C31	31	52	26	52	10	5
n-C32	159	28	121	59	10	5
n-C33	79	62	61	64	10	5
n-C34	nd	nd	nd	nd	10	5
n-C35	nd	15	nd	29	10	5
n-C36	59	39	26	84	10	5
n-C37	nd	<10	nd	<10	10	5
n-C38	nd	nd	nd	nd	10	5
n-C39	nd	nd	nd	nd	10	5
n-C40	nd	nd	nd	nd	10	5

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Resp. Téc.: **Carina Casal**

Emitido em: **08.06.2012**

Lab-nº: **09/3777B-Rev 1**

Padrões de Controle Analítico – (PCA)

(Faixa de Aceitação: 70-130%)


Taxa de Recuperação (%)	
PCA	112

FM-004-L3N – Rev.00 18/02/2009– Apr. FEV/09

Observações

1. Ref. Método – ISO 16703:2001
2. Foram utilizados Brancos de Controle conforme metodologia informada conferido


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