Table A1-16
Summary of Number of Qualified Results by Event and Reason Codes
Omega Chemical Remedial Investigation

Event	Analysis	Reason Code and Description		Tier 1/ Tier 2 Number J's	Tier 1/ Tier 2 Number R's	Tier 3 Number J's	Tier 3 Number R's
2004_QTR1							
	BOD: EPA 405.1	A1	*LCS Recovery*	3	0	0	0
	BOD: EPA 405.1	A2	*MS/MSD Recovery*	2	0	0	0
	CN	A2	*MS/MSD Recovery*	1	0	0	0
	METALS	A2	*MS/MSD Recovery*	1	0	0	0
	TOC	A2	*MS/MSD Recovery*	1	0	0	0
	SVOCs: MC SVOA	A3	*Surrogate Recovery*	8	0	15	0
	VOCs: MC VOA	A3	*Surrogate Recovery*	85	4	0	0
	SVOCs: MC SVOA	C1	*Initial Calibration Relative Standard Deviation*	0	0	1	0
	VOCs: MC VOA	C1	*Initial Calibration Relative Standard Deviation*	15	0	2	0
	VOCs: MC VOA	C2	*Initial Calibration Response Factor*	1	0	5	0
	SVOCs: MC SVOA	C3	*Calibration Percent Difference*	44	0	2	0
	VOCs: MC VOA	C3	*Calibration Percent Difference*	20	0	2	0
	VOCs: MC VOA	C5	*Continuing Calibration Response Factor*	1	0	5	0
	VOCs: MC VOA	D2	*MS/MSD Duplicate Relative Percent Difference*	16	0	0	0
	1,4-Dioxane	Q4	*Holding Time Exceeded*	7	0	0	0
	Anions: EPA 300	Q4	*Holding Time Exceeded*	9	0	0	0
	BOD: EPA 405.1	Q4	*Holding Time Exceeded*	7	0	0	0
	VOCs: MC VOA	Q5	*Internal Standard*	0	7	0	0
2004_QTR2							
	BOD: EPA 405.1	A1	*LCS Recovery*	9	0	0	0
	METALS	A2	*MS/MSD Recovery*	38	0	0	0
	TKN: EPA 351.2	A2	*MS/MSD Recovery*	1	0	0	0
	1,4-Dioxane	A3	*Surrogate Recovery*	1	0	0	0
	SVOCs: MC SVOA	A3	*Surrogate Recovery*	17	0	0	0
	VOCs: MC VOA	A3	*Surrogate Recovery*	16	0	0	0
	SVOCs: MC SVOA	B1	*Laboratory Blank Contamination*	30	0	0	0
	VOCs: MC VOA	B1	*Laboratory Blank Contamination*	22	0	0	0
	METALS	B5	*Initial Calibration Blank Contamination*	8	0	0	0
	METALS	B6	*Continuing Calibration Blank Contamination*	20	0	0	0
	SVOCs: MC SVOA	C1	*Initial Calibration Relative Standard Deviation*	1	0	0	0
	SVOCs: MC SVOA	C2	*Initial Calibration Response Factor*	0	29	0	0
	METALS	C3	*Calibration Percent Difference*	22	1	0	0
	SVOCs: MC SVOA	C3	*Calibration Percent Difference*	50	29	0	0
	VOCs: MC VOA	C3	*Calibration Percent Difference*	4	0	0	0
	SVOCs: MC SVOA	C5	*Continuing Calibration Response Factor*	0	29	0	0
	METALS	D3	*Sample Duplicate Relative Percent Difference*	13	0	0	0
	METALS	D4	*Field Duplicate Relative Percent Difference*	11	0	0	0
	VOCs: MC VOA	Q1	*Result Over Calibration Range*	4	0	0	0
	METALS	Q10	*Quality Control Analysis Not Performed*	0	0	78	12
	BOD: EPA 405.1	Q4	*Holding Time Exceeded*	3	0	0	0

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Event Analysis	Reason Code and Description		Tier 1/ Tier 2 Number J's	Tier 1/ Tier 2 Number R's	Tier 3 Number J's	Tier 3 Number R's
2004_QTR2						
1,4-Dioxane	Q5	*Internal Standard*	4	0	0	0
METALS	Q5	*Internal Standard*	120	60	0	12
METALS	Q7	*Serial Dilution*	0	0	15	0
Anions: EPA 300	Q8	*Interference (Quantitation Limit Raised*	0	0	0	0
2004_QTR3						
BOD: EPA 405.1	A1	*LCS Recovery*	9	0	0	0
TOC: EPA 415.1	A2	*MS/MSD Recovery*	1	0	0	0
SVOCs: MC SVOA	A3	*Surrogate Recovery*	0	0	54	0
VOCs: MC VOA	A3	*Surrogate Recovery*	2	0	12	0
SVOCs: MC SVOA	B1	*Laboratory Blank Contamination*	0	0	10	0
VOCs: MC VOA	B1	*Laboratory Blank Contamination*	0	0	27	0
VOCs: MC VOA	B3	*FIeld Blank Contamination*	0	0	17	0
METALS	B5	*Initial Calibration Blank Contamination*	19	0	0	0
METALS	B6	*Continuing Calibration Blank Contamination*	24	0	0	0
SVOCs: MC SVOA	C1	*Initial Calibration Relative Standard Deviation*	0	0	42	0
VOCs: MC VOA	C1	*Initial Calibration Relative Standard Deviation*	0	0	27	0
SVOCs: MC SVOA	C2	*Initial Calibration Response Factor*	0	0	14	0
VOCs: MC VOA	C2	*Initial Calibration Response Factor*	0	0	66	0
CR6: EPA 218.6	C3	*Calibration Percent Difference*	4	0	0	0
METALS	C3	*Calibration Percent Difference*	54	4	0	0
SVOCs: MC SVOA	C3	*Calibration Percent Difference*	0	0	14	0
VOCs: MC VOA	C3	*Calibration Percent Difference*	0	0	53	0
SVOCs: MC SVOA	C5	*Continuing Calibration Response Factor*	0	0	14	0
VOCs: MC VOA	C5	*Continuing Calibration Response Factor*	0	0	66	0
CR6: EPA 218.6	C6	*Initial Calibration Verification*	4	0	0	0
VOCs: MC VOA	Q1	*Result Over Calibration Range*	0	0	5	0
SVOCs: MC SVOA	Q2	*Failed Spectral Match*	0	0	2	0
BOD: EPA 405.1	Q4	*Holding Time Exceeded*	7	0	0	0
VOCs: MC VOA	Q4	*Holding Time Exceeded*	0	0	47	0
METALS	Q5	*Internal Standard*	8	15	0	0
Anions: EPA 300	Q8	*Interference (Quantitation Limit Raised*	0	0	0	0
2004_QTR4						
1,4-Dioxane	A3	*Surrogate Recovery*	2	0	0	0
NDMA: EPA 162.5	A3	*Surrogate Recovery*	16	0	4	0
SVOCs: MC SVOA	A3	*Surrogate Recovery*	22	0	0	0
VOCs: MC VOA	A3	*Surrogate Recovery*	19	0	0	0
BOD: EPA 405.1	A4	*Standard Reference Material Recovery*	1	0	0	0
NDMA: EPA 162.5	B1	*Laboratory Blank Contamination*	1	0	0	0
SVOCs: MC SVOA	B1	*Laboratory Blank Contamination*	29	0	0	0
VOCs: MC VOA	B1	*Laboratory Blank Contamination*	6	0	0	0

Table A1-16
Summary of Number of Qualified Results by Event and Reason Codes
Omega Chemical Remedial Investigation

Event Analysis	Reason Code and Description		Tier 1/ Tier 2 Number J's	Tier 1/ Tier 2 Number R's	Tier 3 Number J's	Tier 3 Number R's
2004_QTR4						
METALS	B5	*Initial Calibration Blank Contamination*	7	0	1	0
VOCs: MC VOA	B5	*Initial Calibration Blank Contamination*	14	0	0	0
METALS	B6	*Continuing Calibration Blank Contamination*	21	0	3	0
SVOCs: MC SVOA	C1	*Initial Calibration Relative Standard Deviation*	90	25	0	0
VOCs: MC VOA	C2	*Initial Calibration Response Factor*	0	30	0	0
SVOCs: MC SVOA	C3	*Calibration Percent Difference*	111	25	0	0
VOCs: MC VOA	C3	*Calibration Percent Difference*	23	0	0	0
SVOCs: MC SVOA	C5	*Continuing Calibration Response Factor*	1	25	0	0
BOD: EPA 405.1	Q4	*Holding Time Exceeded*	4	0	0	0
NDMA: EPA 162.5	Q4	*Holding Time Exceeded*	5	0	0	0
NDMA: EPA 162.5	Q5	*Internal Standard*	16	0	4	0
SVOCs: MC SVOA	Q5	*Internal Standard*	19	0	0	0
VOCs: MC VOA	Q5	*Internal Standard*	13	0	0	0
2005_QTR1						
NDMA: EPA 162.5	A3	*Surrogate Recovery*	0	0	0	0
VOCs: MC VOA	A3	*Surrogate Recovery*	0	0	20	0
VOCs: MC VOA	B1	*Laboratory Blank Contamination*	0	0	23	0
VOCs: MC VOA	B3	*FIeld Blank Contamination*	0	0	23	0
VOCs: MC VOA	C3	*Calibration Percent Difference*	0	0	40	0
VOCs: MC VOA	C5	*Continuing Calibration Response Factor*	0	0	9	0
VOCs: MC VOA	D2	*MS/MSD Duplicate Relative Percent Difference*	0	0	1	0
NDMA: EPA 162.5	Q5	*Internal Standard*	0	0	0	0
2005_QTR3						
NDMA: EPA 162.5	A3	*Surrogate Recovery*	0	0	0	0
VOCs: MC VOA	A3	*Surrogate Recovery*	38	0	5	0
VOCs: MC VOA	B1	*Laboratory Blank Contamination*	9	0	6	0
VOCs: MC VOA	B3	*FIeld Blank Contamination*	0	0	6	0
VOCs: MC VOA	B5	*Initial Calibration Blank Contamination*	5	0	0	0
VOCs: MC VOA	B7	*Source Blank Contamination*	0	0	6	0
VOCs: MC VOA	C1	*Initial Calibration Relative Standard Deviation*	13	1	2	0
VOCs: MC VOA	C3	*Calibration Percent Difference*	6	1	0	0
VOCs: MC VOA	Q4	*Holding Time Exceeded*	0	1	0	0
NDMA: EPA 162.5	Q5	*Internal Standard*	0	0	0	0
2006_QTR1						
VOCs: EPA 524.2	A2	*MS/MSD Recovery*	3	0	0	0
VOCs: EPA 524.2	B2	*Equipment Blank Contamination*	0	0	3	0
VOCs: EPA 524.2	B4	*Trip Blank Contamination*	0	0	3	0
VOCs: EPA 524.2	C1	*Initial Calibration Relative Standard Deviation*	44	0	1	0
VOCs: EPA 524.2	C3	*Calibration Percent Difference*	18	0	0	0
VOCs: EPA 524.2	C4	*Continuing Calibration Percent Recovery*	1	0	0	0

Table A1-16
Summary of Number of Qualified Results by Event and Reason Codes
Omega Chemical Remedial Investigation

Event Analysis	Reason Code and Description		Tier 1/ Tier 2 Number J's	Tier 1/ Tier 2 Number R's	Tier 3 Number J's	Tier 3 Number R's
2006_QTR1						
VOCs: EPA 524.2	D2	*MS/MSD Duplicate Relative Percent Difference*	1	0	0	0
VOCs: EPA 524.2	Q6	*Quantitation Limit Standard Verification*	9	0	0	0
2006_QTR3						
VOCs: EPA 524.2	A1	*LCS Recovery*	2	0	8	0
CR6: EPA 218.6	A2	*MS/MSD Recovery*	1	0	0	0
VOCs: EPA 524.2	A2	*MS/MSD Recovery*	3	0	0	0
VOCs: EPA 524.2	C1	*Initial Calibration Relative Standard Deviation*	110	0	26	0
VOCs: EPA 524.2	C3	*Calibration Percent Difference*	14	0	9	0
VOCs: EPA 524.2	D2	*MS/MSD Duplicate Relative Percent Difference*	1	0	5	0
NDMA: EPA 162.5	Q4	*Holding Time Exceeded*	6	0	0	0
VOCs: EPA 524.2	Q6	*Quantitation Limit Standard Verification*	35	0	3	0
2007_QTR1						
VOCs: EPA 524.2	A2	*MS/MSD Recovery*	1	0	0	0
VOCs: TVOL	A3	*Surrogate Recovery*	53	0	0	0
VOCs: TVOL	B1	*Laboratory Blank Contamination*	1	0	0	0
VOCs: EPA 524.2	C1	*Initial Calibration Relative Standard Deviation*	8	0	0	0
1,4-Dioxane	C2	*Initial Calibration Response Factor*	0	0	0	0
VOCs: SIMVOL	C2	*Initial Calibration Response Factor*	9	0	6	0
VOCs: TVOL	C2	*Initial Calibration Response Factor*	37	0	0	0
VOCs: EPA 524.2	C3	*Calibration Percent Difference*	4	0	0	0
VOCs: TVOL	C3	*Calibration Percent Difference*	15	0	0	0
VOCs: TVOL	C5	*Continuing Calibration Response Factor*	37	0	0	0
VOCs: TVOL	D2	*MS/MSD Duplicate Relative Percent Difference*	22	0	0	0
VOCs: TVOL	Q1	*Result Over Calibration Range*	2	0	0	0
VOCs: EPA 524.2	Q6	*Quantitation Limit Standard Verification*	12	0	0	0
2007_QTR1HP						
1,4-Dioxane	A3	*Surrogate Recovery*	16	7	10	0
VOCs: TVOL	A3	*Surrogate Recovery*	142	0	20	0
VOCs: TVOL	B1	*Laboratory Blank Contamination*	34	0	0	0
METALS	B2	*Equipment Blank Contamination*	0	0	9	0
VOCs: TVOL	B3	*FIeld Blank Contamination*	1	0	0	0
METALS	B5	*Initial Calibration Blank Contamination*	3	0	3	0
METALS	B6	*Continuing Calibration Blank Contamination*	4	0	6	0
VOCs: TVOL	B7	*Source Blank Contamination*	41	0	0	0
1,4-Dioxane	C2	*Initial Calibration Response Factor*	26	29	15	3
VOCs: TVOL	C2	*Initial Calibration Response Factor*	2	1	51	0
METALS	C3	*Calibration Percent Difference*	0	0	1	0
VOCs: TVOL	C3	*Calibration Percent Difference*	2	0	0	0
1,4-Dioxane	C5	*Continuing Calibration Response Factor*	35	33	15	3
VOCs: TVOL	C5	*Continuing Calibration Response Factor*	2	1	51	0

Table A1-16
Summary of Number of Qualified Results by Event and Reason Codes
Omega Chemical Remedial Investigation

Event	Analysis	Reason Code and Description		Tier 1/ Tier 2 Number J's	Tier 1/ Tier 2 Number R's	Tier 3 Number J's	Tier 3 Number R's
2007_QTR1HP							
	VOCs: TVOL	D2	*MS/MSD Duplicate Relative Percent Difference*	0	0	0	0
	METALS	D3	*Sample Duplicate Relative Percent Difference*	4	0	0	0
	VOCs: TVOL	Q1	*Result Over Calibration Range*	0	0	2	0
	METALS	Q7	*Serial Dilution*	4	0	9	0
2007_QTR2							
	VOCs: EPA 524.2	A2	*MS/MSD Recovery*	4	0	0	0
	VOCs: EPA 524.2	C1	*Initial Calibration Relative Standard Deviation*	26	0	0	0
	VOCs: EPA 524.2	C3	*Calibration Percent Difference*	1	0	0	0
	VOCs: EPA 524.2	Q6	*Quantitation Limit Standard Verification*	13	0	0	0
2007_QTR2HP							
	1,4-Dioxane	A3	*Surrogate Recovery*	2	3	0	0
	VOCs: TVOL	A3	*Surrogate Recovery*	45	0	0	0
	VOCs: TVOL	B1	*Laboratory Blank Contamination*	7	0	0	0
	METALS	B5	*Initial Calibration Blank Contamination*	1	0	0	0
	METALS	B6	*Continuing Calibration Blank Contamination*	1	0	0	0
	VOCs: EPA 524.2	C1	*Initial Calibration Relative Standard Deviation*	16	0	0	0
	1,4-Dioxane	C2	*Initial Calibration Response Factor*	18	19	0	0
	VOCs: EPA 524.2	C2	*Initial Calibration Response Factor*	4	0	0	0
	1,4-Dioxane	C5	*Continuing Calibration Response Factor*	18	19	0	0
	VOCs: TVOL	D2	*MS/MSD Duplicate Relative Percent Difference*	0	0	0	0
	VOCs: EPA 524.2	Q6	*Quantitation Limit Standard Verification*	9	0	0	0
	METALS	Q7	*Serial Dilution*	8	0	0	0
2007_QTR3							
	1,4-Dioxane	A3	*Surrogate Recovery*	0	0	13	0
	SVOCs: CSVOL	A3	*Surrogate Recovery*	28	3	0	0
	VOCs: TVOL	A3	*Surrogate Recovery*	24	0	10	0
	VOCs: TVOL	B1	*Laboratory Blank Contamination*	74	0	3	0
	VOCs: TVOL	B2	*Equipment Blank Contamination*	0	0	30	0
	VOCs: TVOL	B8	*Storage Blank Contamination*	23	0	0	0
	1,4-Dioxane	C2	*Initial Calibration Response Factor*	0	2	4	0
	SVOCs: CSVOL	C2	*Initial Calibration Response Factor*	22	0	0	0
	SVOCs: SIMSVOL	C2	*Initial Calibration Response Factor*	16	5	0	0
	VOCs: TVOL	C2	*Initial Calibration Response Factor*	0	0	16	0
	SVOCs: CSVOL	C3	*Calibration Percent Difference*	30	0	0	0
	SVOCs: SIMSVOL	C3	*Calibration Percent Difference*	17	0	0	0
	1,4-Dioxane	C5	*Continuing Calibration Response Factor*	0	2	0	0
	SVOCs: CSVOL	C5	*Continuing Calibration Response Factor*	22	0	0	0
	SVOCs: SIMSVOL	C5	*Continuing Calibration Response Factor*	0	5	0	0
	VOCs: TVOL	Q1	*Result Over Calibration Range*	0	0	1	0
	1,4-Dioxane	Q5	*Internal Standard*	0	0	1	0

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Omega Chemical Remedial Investigation

Event	Analysis	Reason Code and Description	Tier 1/ Tier 2 Number J's	Tier 1/ Tier 2 Number R's	Tier 3 Number J's	Tier 3 Number R's

Notes.

See Table A1-17 for additiona description of reason codes.