Appendix C:
Noise Supporting Information

Autotechnology Building

Solano-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	208.00	Student	0.68	29,750.00	0
Parking Lot	8.57	Acre	8.57	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	56
Climate Zone	4			**Operational Year**	2016
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Development of an 29,750 sf autotechnology building on a 9.25 acre site

Construction Phase - Construction would begin Jan 2016 and would occur over 12 months

Vehicle Trips - Trip rates from Traffic Analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	9,079.67	29,750.00

tblLandUse	LandUseSquareFeet	373,309.20	0.00
tblLandUse	LotAcreage	0.21	0.68
tblProjectCharacteristics	OperationalYear	2014	2016
tblVehicleTrips	ST_TR	0.42	0.23
tblVehicleTrips	WD_TR	1.20	1.72

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.6294	3.5816	2.4562	3.6400e-003	0.0189	0.2409	0.2598	5.0900e-003	0.2261	0.2312	0.0000	326.9999	326.9999	0.0764	0.0000	328.6040
2017	0.1567	9.9000e-003	9.0000e-003	1.0000e-005	1.2000e-004	7.8000e-004	9.0000e-004	3.0000e-005	7.8000e-004	8.1000e-004	0.0000	1.2559	1.2559	1.3000e-004	0.0000	1.2586
Total	**0.7860**	**3.5915**	**2.4652**	**3.6500e-003**	**0.0190**	**0.2417**	**0.2607**	**5.1200e-003**	**0.2269**	**0.2320**	**0.0000**	**328.2558**	**328.2558**	**0.0765**	**0.0000**	**329.8626**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1319	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8700e-003	3.8700e-003	1.0000e-005	0.0000	4.1000e-003
Energy	4.0500e-003	0.0368	0.0309	2.2000e-004		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	117.4974	117.4974	4.2700e-003	1.4600e-003	118.0393
Mobile	0.1984	0.5218	2.0704	3.7500e-003	0.2502	6.2600e-003	0.2564	0.0671	5.7500e-003	0.0728	0.0000	299.2736	299.2736	0.0124	0.0000	299.5331
Waste						0.0000	0.0000		0.0000	0.0000	7.7055	0.0000	7.7055	0.4554	0.0000	17.2686
Water						0.0000	0.0000		0.0000	0.0000	0.1413	1.4103	1.5516	0.0146	3.6000e-004	1.9680

Total	**0.3343**	**0.5586**	**2.1033**	**3.9700e-003**	**0.2502**	**9.0700e-003**	**0.2592**	**0.0671**	**8.5600e-003**	**0.0756**	**7.8468**	**418.1851**	**426.0319**	**0.4866**	**1.8200e-003**	**436.8130**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/1/2016	11/17/2016	5	230	
2	Paving	Paving	11/18/2016	12/15/2016	5	20	
3	Architectural Coating	Architectural Coating	12/16/2016	1/12/2017	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,625; Non-Residential Outdoor: 14,875 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class

Building Construction	9	13.00	5.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3917	3.2782	2.1283	3.0800e-003		0.2263	0.2263		0.2126	0.2126	0.0000	278.4766	278.4766	0.0691	0.0000	279.9270
Total	**0.3917**	**3.2782**	**2.1283**	**3.0800e-003**		**0.2263**	**0.2263**		**0.2126**	**0.2126**	**0.0000**	**278.4766**	**278.4766**	**0.0691**	**0.0000**	**279.9270**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8100e-003	0.0577	0.0865	1.4000e-004	3.7100e-003	8.5000e-004	4.5500e-003	1.0600e-003	7.8000e-004	1.8400e-003	0.0000	12.4080	12.4080	1.0000e-004	0.0000	12.4101
Worker	5.4800e-003	7.9400e-003	0.0746	1.6000e-004	0.0136	1.0000e-004	0.0137	3.6200e-003	9.0000e-005	3.7200e-003	0.0000	12.3245	12.3245	6.4000e-004	0.0000	12.3381
Total	**0.0133**	**0.0656**	**0.1611**	**3.0000e-004**	**0.0173**	**9.5000e-004**	**0.0183**	**4.6800e-003**	**8.7000e-004**	**5.5600e-003**	**0.0000**	**24.7325**	**24.7325**	**7.4000e-004**	**0.0000**	**24.7481**

3.3 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0209	0.2239	0.1482	2.2000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	21.0138	21.0138	6.3400e-003	0.0000	21.1469

Paving	0.0112					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0321**	**0.2239**	**0.1482**	**2.2000e-004**		**0.0126**	**0.0126**		**0.0116**	**0.0116**	**0.0000**	**21.0138**	**21.0138**	**6.3400e-003**	**0.0000**	**21.1469**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	8.0000e-004	7.4800e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2366	1.2366	6.0000e-005	0.0000	1.2379
Total	**5.5000e-004**	**8.0000e-004**	**7.4800e-003**	**2.0000e-005**	**1.3700e-003**	**1.0000e-005**	**1.3800e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2366**	**1.2366**	**6.0000e-005**	**0.0000**	**1.2379**

3.4 Architectural Coating - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1896					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0300e-003	0.0131	0.0104	2.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	1.4043	1.4043	1.7000e-004	0.0000	1.4078
Total	**0.1916**	**0.0131**	**0.0104**	**2.0000e-005**		**1.0800e-003**	**1.0800e-003**		**1.0800e-003**	**1.0800e-003**	**0.0000**	**1.4043**	**1.4043**	**1.7000e-004**	**0.0000**	**1.4078**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	9.0000e-005	8.2000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1360	0.1360	1.0000e-005	0.0000	0.1362
Total	**6.0000e-005**	**9.0000e-005**	**8.2000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1360**	**0.1360**	**1.0000e-005**	**0.0000**	**0.1362**

3.4 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1551					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-003	9.8300e-003	8.4100e-003	1.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	1.1490	1.1490	1.2000e-004	0.0000	1.1515
Total	**0.1566**	**9.8300e-003**	**8.4100e-003**	**1.0000e-005**		**7.8000e-004**	**7.8000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**1.1490**	**1.1490**	**1.2000e-004**	**0.0000**	**1.1515**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	6.0000e-005	6.0000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1070	0.1070	1.0000e-005	0.0000	0.1071
Total	**4.0000e-005**	**6.0000e-005**	**6.0000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1070**	**0.1070**	**1.0000e-005**	**0.0000**	**0.1071**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Unmitigated	0.1984	0.5218	2.0704	3.7500e-003	0.2502	6.2600e-003	0.2564	0.0671	5.7500e-003	0.0728	0.0000	299.2736	299.2736	0.0124	0.0000	299.5331

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	357.76	47.84	8.32	669,335	669,335
Parking Lot	0.00	0.00	0.00		
Total	357.76	47.84	8.32	669,335	669,335

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior College (2Yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.522085	0.064887	0.165672	0.136634	0.038355	0.005456	0.012406	0.037489	0.004454	0.002641	0.006732	0.000682	0.002505

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	77.4588	77.4588	3.5000e-003	7.2000e-004	77.7570
NaturalGas Unmitigated	4.0500e-003	0.0368	0.0309	2.2000e-004		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	40.0386	40.0386	7.7000e-004	7.3000e-004	40.2823

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Junior College (2Yr)	750295	4.0500e-003	0.0368	0.0309	2.2000e-004		2.8000e-003	2.8000e-003		2.8000e-003	2.8000e-003	0.0000	40.0386	40.0386	7.7000e-004	7.3000e-004	40.2823
Total		**4.0500e-003**	**0.0368**	**0.0309**	**2.2000e-004**		**2.8000e-003**	**2.8000e-003**		**2.8000e-003**	**2.8000e-003**	**0.0000**	**40.0386**	**40.0386**	**7.7000e-004**	**7.3000e-004**	**40.2823**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	266263	77.4588	3.5000e-003	7.2000e-004	77.7570
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**77.4588**	**3.5000e-003**	**7.2000e-004**	**77.7570**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	0.1319	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8700e-003	3.8700e-003	1.0000e-005	0.0000	4.1000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					

Architectural Coating	0.0155					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.0400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8700e-003	3.8700e-003	1.0000e-005	0.0000	4.1000e-003
Total	**0.1319**	**2.0000e-005**	**2.0400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.8700e-003**	**3.8700e-003**	**1.0000e-005**	**0.0000**	**4.1000e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	1.5516	0.0146	3.6000e-004	1.9680

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	0.445349 / 0.696571	1.5516	0.0146	3.6000e-004	1.9680
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.5516**	**0.0146**	**3.6000e-004**	**1.9680**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Unmitigated	7.7055	0.4554	0.0000	17.2686

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	37.96	7.7055	0.4554	0.0000	17.2686
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**7.7055**	**0.4554**	**0.0000**	**17.2686**

Autotechnology Building - BAU

Solano-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	208.00	Student	0.68	29,750.00	0
Parking Lot	8.57	Acre	8.57	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	56
Climate Zone	4			**Operational Year**	2005
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Development of an 29,750 sf autotechnology building on a 9.25 acre site

Construction Phase - Construction would begin Jan 2016 and would occur over 12 months

Vehicle Trips - Trip rates from Traffic Analysis

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150

tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100
tblLandUse	LandUseSquareFeet	9,079.67	29,750.00
tblLandUse	LandUseSquareFeet	373,309.20	0.00
tblLandUse	LotAcreage	0.21	0.68
tblProjectCharacteristics	OperationalYear	2014	2005
tblVehicleTrips	ST_TR	0.42	0.23
tblVehicleTrips	WD_TR	1.20	1.72

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	3.8700e-003	3.8700e-003	2.0000e-005	0.0000	4.2500e-003
Energy											0.0000	117.4974	117.4974	4.2700e-003	1.4600e-003	118.0393
Mobile											0.0000	355.6699	355.6699	0.0347	0.0000	356.3990
Waste											7.7055	0.0000	7.7055	0.4554	0.0000	17.2686
Water											0.1413	1.4103	1.5516	0.0146	3.6000e-004	1.9680
Total											**7.8468**	**474.5815**	**482.4283**	**0.5090**	**1.8200e-003**	**493.6791**

Autotechnology Building - 2020

Solano-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	208.00	Student	0.68	29,750.00	0
Parking Lot	8.57	Acre	8.57	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	56
Climate Zone	4			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.022	**N2O Intensity (lb/MWhr)**	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Year 2020 run

Land Use - Development of an 29,750 sf autotechnology building on a 9.25 acre site

Construction Phase - Construction would begin Jan 2016 and would occur over 12 months

Vehicle Trips - Trip rates from Traffic Analysis

Mobile Land Use Mitigation - Existing project area conditions

Energy Mitigation - Exceed Title 24 by 30 percent for new nonresidential development

Water Mitigation -

Waste Mitigation - Citywide goal of 50 percent

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00

tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblLandUse	LandUseSquareFeet	9,079.67	29,750.00
tblLandUse	LandUseSquareFeet	373,309.20	0.00
tblLandUse	LotAcreage	0.21	0.68
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	0.42	0.23
tblVehicleTrips	WD_TR	1.20	1.72

2.0 Emissions Summary

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	3.8700e-003	3.8700e-003	1.0000e-005	0.0000	4.0900e-003
Energy											0.0000	82.3298	82.3298	2.9300e-003	1.0800e-003	82.7257
Mobile											0.0000	199.7395	199.7395	7.2100e-003	0.0000	199.8908
Waste											3.8528	0.0000	3.8528	0.2277	0.0000	8.6343
Water											0.1413	1.0479	1.1892	0.0146	3.5000e-004	1.6043
Total											**3.9941**	**283.1211**	**287.1151**	**0.2524**	**1.4300e-003**	**292.8592**

Summary					
Filename	LxT_Data.059				
Serial Number	4228				
Model	SoundTrack LxT®				
Firmware Version	2.206				
User					
Location					
Job Description					
Note					
Measurement Description					
Start	05/05/2015 15:03:10				
Stop	05/05/2015 15:16:23				
Duration	0:13:12.1				
Run Time	0:13:12.1				
Pause	0:00:00.0				
Pre Calibration	05/05/2015 15:01:54				
Post Calibration	None				
Calibration Deviation	---				
Overall Settings					
RMS Weight	A Weighting				
Peak Weight	A Weighting				
Detector	Slow				
Preamp	PRMLxT2B				
Microphone Correction	Off				
Integration Method	Exponential				
Overload	145.3 dB				
	A		**C**		**Z**
Under Range Peak	**101.5**		98.5		103.5 dB
Under Range Limit	**37.7**		35.7		43.7 dB
Noise Floor	25.1		25.6		33.0 dB
Results					
LASeq	45.9 dB				
LASE	74.9 dB				
EAS	3.445 µPa²h				
EAS8	125.259 µPa²h				
EAS40	626.293 µPa²h				
LApeak (max)	05/05/2015 15:10:14		93.3 dB		
LASmax	05/05/2015 15:10:14		67.1 dB		
LASmin	05/05/2015 15:14:34		36.8 dB		
SEA	-99.9 dB				
LAS > 85.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LAS > 115.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 135.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 137.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 140.0 dB (Exceedence Counts / Duration)	0		0.0 s		
Community Noise	**Ldn**	**LDay 06:00-22:00**		**LNight 22:00-06:00**	**Lden**
	45.9	45.9		-99.9	45.9
LCSeq	57.9 dB				
LASeq	45.9 dB				

LCSeq - LASeq	12.0	dB
LAIeq	54.0	dB
LAeq	45.9	dB
LAIeq - LAeq	8.1	dB
# Overloads	0	
Overload Duration	0.0	s

Summary					
Filename	LxT_Data.060				
Serial Number	4228				
Model	SoundTrack LxT®				
Firmware Version	2.206				
User					
Location					
Job Description					
Note					
Measurement Description					
Start	05/05/2015 15:44:22				
Stop	05/05/2015 16:02:01				
Duration	0:17:38.5				
Run Time	0:17:38.5				
Pause	0:00:00.0				
Pre Calibration	05/05/2015 15:01:39				
Post Calibration	None				
Calibration Deviation	---				
Overall Settings					
RMS Weight	A Weighting				
Peak Weight	A Weighting				
Detector	Slow				
Preamp	PRMLxT2B				
Microphone Correction	Off				
Integration Method	Exponential				
Overload	145.3 dB				
	A		**C**		**Z**
Under Range Peak	**101.5**		98.5		103.5 dB
Under Range Limit	**37.7**		35.7		43.7 dB
Noise Floor	25.1		25.6		33.0 dB
Results					
LASeq	53.1 dB				
LASE	83.3 dB				
EAS	23.819 µPa²h				
EAS8	648.077 µPa²h				
EAS40	3.240 mPa²h				
LApeak (max)	05/05/2015 15:44:46		86.4 dB		
LASmax	05/05/2015 15:58:51		63.3 dB		
LASmin	05/05/2015 15:58:04		48.4 dB		
SEA	-99.9 dB				
LAS > 85.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LAS > 115.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 135.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 137.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 140.0 dB (Exceedence Counts / Duration)	0		0.0 s		
Community Noise	**Ldn**	**LDay 06:00-22:00**		**LNight 22:00-06:00**	**Lden**
	53.1	53.1		-99.9	53.1
LCSeq	64.8 dB				
LASeq	53.1 dB				

LCSeq - LASeq	11.8	dB
LAIeq	54.5	dB
LAeq	53.1	dB
LAIeq - LAeq	1.4	dB
# Overloads	0	
Overload Duration	0.0	s

Summary					
Filename	LxT_Data.061				
Serial Number	4228				
Model	SoundTrack LxT®				
Firmware Version	2.206				
User					
Location					
Job Description					
Note					
Measurement Description					
Start	05/05/2015 16:23:58				
Stop	05/05/2015 16:40:02				
Duration	0:16:03.7				
Run Time	0:16:03.7				
Pause	0:00:00.0				
Pre Calibration	05/05/2015 16:20:49				
Post Calibration	None				
Calibration Deviation	---				
Overall Settings					
RMS Weight	A Weighting				
Peak Weight	A Weighting				
Detector	Slow				
Preamp	PRMLxT2B				
Microphone Correction	Off				
Integration Method	Exponential				
Overload	145.4 dB				
	A		**C**		**Z**
Under Range Peak	**101.6**		98.6		103.6 dB
Under Range Limit	**37.8**		35.8		43.8 dB
Noise Floor	25.2		25.7		33.0 dB
Results					
LASeq	53.1 dB				
LASE	83.0 dB				
EAS	21.954 µPa²h				
EAS8	656.097 µPa²h				
EAS40	3.280 mPa²h				
LApeak (max)	05/05/2015 16:37:42		90.8 dB		
LASmax	05/05/2015 16:39:30		67.5 dB		
LASmin	05/05/2015 16:33:17		43.9 dB		
SEA	-99.9 dB				
LAS > 85.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LAS > 115.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 135.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 137.0 dB (Exceedence Counts / Duration)	0		0.0 s		
LApeak > 140.0 dB (Exceedence Counts / Duration)	0		0.0 s		
Community Noise	**Ldn**	**LDay 06:00-22:00**		**LNight 22:00-06:00**	**Lden**
	53.1	53.1		-99.9	53.1
LCSeq	70.2 dB				
LASeq	53.1 dB				

LCSeq - LASeq	17.0	dB
LAIeq	55.4	dB
LAeq	53.1	dB
LAIeq - LAeq	2.3	dB
# Overloads	0	
Overload Duration	0.0	s

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/13/2015
Case Description: Building Construction Phase

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
R1 - Closest receptor	Residential	46	45	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	105	5
Man Lift	No	20		74.7	125	5
Generator	No	50		80.6	125	5
Tractor	No	40	84		105	5
Front End Loader	No	40		79.1	125	5
Backhoe	No	40		77.6	145	5
Welder / Torch	No	40		74	145	5

Equipment	Calculated (dBA) *Lmax	Leq	Results Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Crane	69.1	61.1	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	61.7	54.8	N/A	N/A	N/A	N/A	N/A	N/A
Generator	67.7	64.7	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	72.6	68.6	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	66.2	62.2	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	63.3	59.3	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	59.8	55.8	N/A	N/A	N/A	N/A	N/A	N/A
Total	72.6	71.6	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
R2- Closest receptor	Commercial	53	53	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	320	5
Man Lift	No	20		74.7	340	5
Generator	No	50		80.6	340	5
Tractor	No	40	84		320	5
Front End Loader	No	40		79.1	340	5
Backhoe	No	40		77.6	360	5
Welder / Torch	No	40		74	360	5

Results

	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	59.4	51.5	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	53	46.1	N/A	N/A	N/A	N/A	N/A	N/A
Generator	59	56	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	62.9	58.9	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	57.5	53.5	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	55.4	51.4	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	51.9	47.9	N/A	N/A	N/A	N/A	N/A	N/A
Total	62.9	62.5	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
R3 - Closest receptor	Residential	53	53	45

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	375	5
Man Lift	No	20		74.7	385	5
Generator	No	50		80.6	385	5
Tractor	No	40	84		375	5
Front End Loader	No	40		79.1	385	5
Backhoe	No	40		77.6	395	5
Welder / Torch	No	40		74	395	5

Results

	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	58	50.1	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	52	45	N/A	N/A	N/A	N/A	N/A	N/A
Generator	57.9	54.9	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	61.5	57.5	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	56.4	52.4	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	54.6	50.6	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	51	47.1	N/A	N/A	N/A	N/A	N/A	N/A
Total	61.5	61.3	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
R4 - Closest receptor	Residential	53	53	45

Equipment

Impact	Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding

Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16		80.6	530	5
Man Lift	No	20		74.7	540	5
Generator	No	50		80.6	540	5
Tractor	No	40	84		530	5
Front End Loader	No	40		79.1	540	5
Backhoe	No	40		77.6	550	5
Welder / Torch	No	40		74	550	5

Results

	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	55	47.1	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	49	42	N/A	N/A	N/A	N/A	N/A	N/A
Generator	55	52	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	58.5	54.5	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.4	49.5	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	51.7	47.8	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	48.2	44.2	N/A	N/A	N/A	N/A	N/A	N/A
Total	58.5	58.3	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/13/2015
Case Description: Paving Phase

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
R1 - Closest recepto	Residential	46	45	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	55	5
Paver	No	50		77.2	55	5
Dump Truck	No	40		76.5	55	5
Roller	No	20		80	35	5
Roller	No	20		80	35	5
Dump Truck	No	40		76.5	75	5

Results

	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	71.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A
Paver	71.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	70.6	66.6	N/A	N/A	N/A	N/A	N/A	N/A
Roller	78.1	71.1	N/A	N/A	N/A	N/A	N/A	N/A
Roller	78.1	71.1	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	67.9	63.9	N/A	N/A	N/A	N/A	N/A	N/A
Total	78.1	76.7	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
R2- Closest receptor	Commercial	53	53	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	255	5
Paver	No	50		77.2	255	5
Dump Truck	No	40		76.5	255	5
Roller	No	20		80	235	5
Roller	No	20		80	235	5
Dump Truck	No	40		76.5	275	5

Results

	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	

Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		58.1	55.1	N/A	N/A	N/A	N/A	N/A	N/A
Paver		58.1	55.1	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck		57.3	53.3	N/A	N/A	N/A	N/A	N/A	N/A
Roller		61.6	54.6	N/A	N/A	N/A	N/A	N/A	N/A
Roller		61.6	54.6	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck		56.6	52.7	N/A	N/A	N/A	N/A	N/A	N/A
	Total	61.6	62.1	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
R3 - Closest recepto	Residential	53	53	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	240	5
Paver	No	50		77.2	240	5
Dump Truck	No	40		76.5	240	5
Roller	No	20		80	230	5
Roller	No	20		80	230	5
Dump Truck	No	40		76.5	250	5

Results

	Calculated (dBA)		Noise Limits (dBA)					
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	58.6	55.6	N/A	N/A	N/A	N/A	N/A	N/A
Paver	58.6	55.6	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	57.8	53.8	N/A	N/A	N/A	N/A	N/A	N/A
Roller	61.7	54.8	N/A	N/A	N/A	N/A	N/A	N/A
Roller	61.7	54.8	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	57.5	53.5	N/A	N/A	N/A	N/A	N/A	N/A
Total	61.7	62.5	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
R4 - Closest recepto	Residential	53	53	45

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	540	5
Paver	No	50		77.2	540	5
Dump Truck	No	40		76.5	540	5
Roller	No	20		80	530	5
Roller	No	20		80	530	5

Dump Truck	No	40	76.5	550	5		

		Results					
	Calculated (dBA)		Noise Limits (dBA)				
			Day		Evening		Night	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	51.6	48.5	N/A	N/A	N/A	N/A	N/A	N/A
Paver	51.6	48.5	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.8	46.8	N/A	N/A	N/A	N/A	N/A	N/A
Roller	54.5	47.5	N/A	N/A	N/A	N/A	N/A	N/A
Roller	54.5	47.5	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	50.6	46.6	N/A	N/A	N/A	N/A	N/A	N/A
Total	54.5	55.4	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

TABLE 2015 -01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Redwood Parkway to Turner Parkway
NOTES: Autotechnology Building Project - 2015

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7900 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.67

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	93.5	196.1

TABLE 2015 -02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Turner Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2015

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3900 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.60

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL 70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	61.3	123.9

TABLE 2015 -03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Project Entrance to Berkshire Lane
NOTES: Autotechnology Building Project - 2015

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3900 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.60

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	61.3	123.9

TABLE 2015 -04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Berkshire Lane to Columbus Parkway
NOTES: Autotechnology Building Project - 2015

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.71

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	62.2	126.0

TABLE 2015 -05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Ascot Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2015

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6700 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.37

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	103.5	218.2

TABLE 2015 -06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Project Entrance to Plaza Drive
NOTES: Autotechnology Building Project - 2015

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6800 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.43

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	104.5	220.4

TABLE 2015 -07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Plaza Drive to Admiral Callaghan Lane
NOTES: Autotechnology Building Project - 2015

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6200 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL 70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	98.6	207.4

TABLE 2018 No Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Redwood Parkway to Turner Parkway
NOTES: Autotechnology Building Project - 2018 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8900 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.18

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	100.7	212.1

TABLE 2018 No Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Turner Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2018 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.41

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	68.3	139.8

TABLE 2018 No Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Project Entrance to Berkshire Lane
NOTES: Autotechnology Building Project - 2018 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.41

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	68.3	139.8

TABLE 2018 No Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Berkshire Lane to Columbus Parkway
NOTES: Autotechnology Building Project - 2018 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.50

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	69.1	141.7

TABLE 2018 No Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Ascot Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2018 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6800 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.43

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	104.5	220.4

TABLE 2018 No Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Project Entrance to Plaza Drive
NOTES: Autotechnology Building Project - 2018 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6900 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.50

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	105.5	222.5

TABLE 2018 No Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Plaza Drive to Admiral Callaghan Lane
NOTES: Autotechnology Building Project - 2018 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6300 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.10

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL 70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	99.6	209.6

TABLE 2018 + Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Redwood Parkway to Turner Parkway
NOTES: Autotechnology Building Project - 2018 + Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9100 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.28

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	102.2	215.3

TABLE 2018 + Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Turner Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2018 + Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.68

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	70.8	145.5

TABLE 2018 + Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Project Entrance to Berkshire Lane
NOTES: Autotechnology Building Project - 2018 + Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5400 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.01

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	74.1	153.0

TABLE 2018 + Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Berkshire Lane to Columbus Parkway
NOTES: Autotechnology Building Project - 2018 + Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5500 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	74.9	154.8

TABLE 2018 + Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Ascot Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2018 + Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.68

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	108.3	228.8

TABLE 2018 + Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Project Entrance to Plaza Drive
NOTES: Autotechnology Building Project - 2018 + Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	107.4	226.7

TABLE 2018 + Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Plaza Drive to Admiral Callaghan Lane
NOTES: Autotechnology Building Project - 2018 + Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6500 SPEED (MPH): 40 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.24

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	101.6	213.9

TABLE 2030 No Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Redwood Parkway to Turner Parkway
NOTES: Autotechnology Building Project - 2030 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.76

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	62.6	126.9	269.6

TABLE 2030 No Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Turner Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2030 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.88

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	96.4	202.6

TABLE 2030 No Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Project Entrance to Berkshire Lane
NOTES: Autotechnology Building Project - 2030 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.88

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	96.4	202.6

TABLE 2030 No Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Berkshire Lane to Columbus Parkway
NOTES: Autotechnology Building Project - 2030 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.72

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	94.2	197.8

TABLE 2030 No Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Ascot Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2030 No Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	107.4	226.7

TABLE 2030 No Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Project Entrance to Plaza Drive
NOTES: Autotechnology Building Project - 2030 No Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6900 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.50

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	105.5	222.5

TABLE 2030 No Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Plaza Drive to Admiral Callaghan Lane
NOTES: Autotechnology Building Project - 2030 No Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7000 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.56

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	106.4	224.6

TABLE 2030 + Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Redwood Parkway to Turner Parkway
NOTES: Autotechnology Building Project - 2030 + Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.83

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	63.2	128.2	272.3

TABLE 2030 + Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Turner Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2030 + Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.88

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	96.4	202.6

TABLE 2030 + Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Project Entrance to Berkshire Lane
NOTES: Autotechnology Building Project - 2030 + Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8700 SPEED (MPH): 35 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.08

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL 70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	99.3	209.0

TABLE 2030 + Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Ascot Parkway - Berkshire Lane to Columbus Parkway
NOTES: Autotechnology Building Project - 2030 + Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.08

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	99.3	209.0

TABLE 2030 + Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Ascot Parkway to Project Entrance
NOTES: Autotechnology Building Project - 2030 + Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.86

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	55.8	111.2	235.0

TABLE 2030 + Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Project Entrance to Plaza Drive
NOTES: Autotechnology Building Project - 2030 + Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.68

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	108.3	228.8

TABLE 2030 + Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/12/2015
ROADWAY SEGMENT: Turner Parkway - Plaza Drive to Admiral Callaghan Lane
NOTES: Autotechnology Building Project - 2030 + Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	107.4	226.7
