

Appendix A

## **Air Quality Construction Assumptions**

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**Assumptions**

1. Construction hours per day: 7am - 5pm Note that heavy equipment operations are assumed to operate an average of 8hrs max per day
2. No night work
3. Start and End dates are approximate
4. Employee numbers are based on assumed numbers required to complete each activity within the dates indicated
5. Employee commute time is 1.5 hours (0.75 hour each way)
6. Carpool average is 1.5 persons per vehicle
7. Total site disturbance is approximately 12 acres
8. Phase 1 Rough Grading Earthwork is approximately 30,000 CY
9. Phase 1 100% of Excavated material from rough grading used for construction of ramp
10. Phase 1 Tank Farm size is approximately 8.5 acres
11. Phase 1 AC Paving size is approximately 3.8 acres
12. Phase 2 Tank Farm size is approximately 1.5 acre
13. Phase 2 AC Paving size is approximately 2.4 acres
14. Phase 2 Process Building is approximately 45,000 SF
15. Phase 3 Tank Farm size is approximately 1.3 acres
16. The following table provides the assumed maximum capacity of the heavy equipment:

<b>Equipment Name</b>	<b>Max Capacity</b>	<b>Units</b>
Backhoe	25	CY/hr
Compactor	165	CY/hr (8" lifts)
Concrete Mixer Truck	10.5	CY/load
Concrete Pump Truck	150	CY/day
Dump Truck, Bottom Dump	20	CY/load
Dump Truck, Standard	10	CY/load
Employee Vehicle	2	hr average commute (total)
Generators	75	kw (total), Power available on-site
Hydraulic Excavator, Medium	35	CY/hr
Hydraulic Excavator, Small	20	CY/hr
Motor Grader	125	SY/hr
Paver	150	SY/hr
Skid Steer Loader	16	CY/hr
Telehandler	6500	lb load
Track Loader, Large	160	CY/hr
Track Loader, Medium	95	CY/hr
Trencher, Chain	80	LF/hr
Vibratory Compactor	85	CY/hr (8" lifts)
Water Truck	4000	gallon
Wheeled Dozer	75	CY/hr
Wheeled Scraper	130	CY/hr

**Phase 1. Gallo Livingston East Expansion**

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Rough Grading	Hydraulic Excavator, Medium	1	CAT 320D	148	Diesel	1	CY	8	Jan-2-12	Jan-20-12	18	144
	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	8	Jan-2-12	Jan-20-12	18	144
	Wheeled Dozer	1	CAT 814F Series 2	232	Diesel	3.5	CY	8	Jan-2-12	Jan-20-12	18	144
	Wheeled Scraper	1	CAT 623G	330	Diesel	23	CY	8	Jan-2-12	Jan-20-12	18	144
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	8	Jan-15-12	Jan-20-12	5	40
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	8	Jan-10-12	Jan-15-12	5	40
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	8	Jan-2-12	Jan-20-12	18	432
	Compactor	1	CAT B15F Series 2	232	Diesel	23	ton	8	Jan-2-12	Jan-20-12	18	144
	Water Truck	1	Peterbilt 335	300	Diesel	4000	gal	8	Jan-2-12	Jan-20-12	18	144
	Delivery, Flatbed	5	International 4700	195	Diesel			2			1	10
	Delivery, Tractor Trailer	10	Peterbilt 389	435	Diesel			2			2	40
	Delivery, Box Truck	2	Peterbilt 210	220	Diesel			2			1	4
	Generators	1		125	Diesel	325	kw	10	Jan-2-12	Jan-20-12	18	180
	Employee Vehicle	20		150	Gasoline	1.5	person/day	1.5	Jan-2-12	Jan-20-12	18	540
	Place Embankment Material for Ramp	Hydraulic Excavator, Medium	1	CAT 320D	148	Diesel	1	CY	4	Jan-20-12	Jan-30-12	10
Hydraulic Excavator, Small		1	CAT 314D	90	Diesel	0.5	CY	4	Jan-20-12	Jan-30-12	10	40
Wheeled Dozer		1	CAT 814F Series 2	232	Diesel	3.5	CY	8	Jan-20-12	Jan-30-12	10	80
Motor Grader		1	CAT 140M	183	Diesel			8	Jan-28-11	Jan-30-11	2	16
Track Loader, Large		1	CAT 973D	263	Diesel	4.2	CY	8	Jan-8-12	Jan-20-12	12	96
Track Loader, Medium		1	CAT 953D	148	Diesel	2.4	CY	8	Jan-8-12	Jan-20-12	12	96
Compactor		1	CAT B15F Series 2	232	Diesel	23	ton	8	Jan-2-12	Jan-20-12	18	144
Dump Truck, Bottom Dump		5	Peterbilt 388	435	Diesel	20	CY	8	Jan-2-12	Jan-20-12	18	720
Water Truck		1	Peterbilt 335	300	Diesel	4000	gal	2	Jan-2-12	Jan-20-12	18	36
Generators		1		125	Diesel			10	Jan-2-12	Jan-20-12	18	180
Employee Vehicle		20		150	Gasoline	1.5	person/day	1.5	Jan-2-12	Jan-20-12	18	540
Construct Retaining Wall for Ramp		Hydraulic Excavator, Medium	1	CAT 320D	148	Diesel	1	CY	4	Feb-1-12	Feb-9-12	8
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Feb-2-12	Feb-10-12	8	16
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	3	Feb-2-12	Feb-10-12	8	24
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	4	Feb-2-12	Feb-10-12	8	96
	Concrete Mixer Truck	14	Peterbilt 357	305	Diesel	10.5	CY	8	Feb-5-12	Feb-7-12	2	224
	Concrete Pump Truck	1	Mack MR688S	400	Diesel	150	CY/day	8	Feb-5-12	Feb-7-12	2	16
	Delivery, Flatbed	4	International 4700	195	Diesel			1			20	80
	Delivery, Tractor Trailer	2	Peterbilt 389	435	Diesel			2			5	20
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			8	Feb-1-12	Feb-29-12	28	224
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	4	Feb-2-12	Feb-10-12	28	112
	Generators	1		125	Diesel			10	Feb-1-12	Feb-29-12	28	280
	Employee Vehicle	15		150	Gasoline	1.5	person/day	1.5	Feb-1-12	Feb-29-12	28	630

Phase 1. Continued

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Footing Excavation for Fermenters, Cellar Tanks, Process Equipment	Hydraulic Excavator, Medium	1	CAT 320D	148	Diesel	1	CY	8	Mar-1-12	Mar-16-12	15	120
	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	8	Mar-1-12	Mar-16-12	15	120
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	3	Mar-1-12	Mar-16-12	15	45
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	8	Mar-1-12	Mar-16-12	15	120
	Dump Truck, Standard	4	Peterbilt 378	435	Diesel	10	CY	8	Mar-1-12	Mar-16-12	15	480
	Generators	1		125	Diesel			10	Mar-1-12	Mar-16-12	15	150
	Employee Vehicle	15		150	Gasoline	1.5	person/day	1.5	Mar-1-12	Mar-16-12	15	338
Trenching, Underground Utility Installation and Backfill	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	6	Mar-17-12	Mar-31-12	14	84
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	8	Mar-17-12	Mar-31-12	14	112
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	8	Mar-17-12	Mar-31-12	14	112
	Trencher, Chain	1		40	Diesel	1	CY	8	Mar-17-12	Mar-24-12	7	56
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	8	Mar-17-12	Mar-31-12	14	336
	Delivery, Flatbed	5	International 4700	195	Diesel			2			4	40
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	8	Mar-17-12	Mar-31-12	14	112
	Generators	1		125	Diesel			10	Mar-17-12	Mar-31-12	14	140
Employee Vehicle	20		150	Gasoline	1.5	person/day	1.5	Mar-17-12	Mar-31-12	14	420	
Form, Place Rebar and Concrete for Fermenters, Cellar Tanks, Process Equipment	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Apr-1-12	Apr-30-12	29	58
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	4	Apr-1-12	Apr-30-12	29	116
	Delivery, Flatbed	2	International 4700	195	Diesel			2			4	16
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	2	Apr-1-12	Apr-30-12	29	58
	Concrete Mixer Truck	58	Peterbilt 357	305	Diesel	10.5	CY	1	Apr-1-12	Apr-30-12	29	1682
	Concrete Pump Truck	4	Mack MR688S	400	Diesel	150	CY/day	12	Apr-1-12	Apr-30-12	29	1392
	Generators	1		125	Diesel			10	Apr-1-12	Apr-30-12	29	290
	Employee Vehicle	25		150	Gasoline	1.5	person/day	1.5	Apr-1-12	Apr-30-12	29	1088
Structural Steel Erection	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Apr-16-12	May-15-12	29	58
	Delivery, Flatbed	8	International 4700	195	Diesel			2			10	160
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			10	160
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			10	100
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	Apr-16-12	May-15-12	29	116
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	Apr-16-12	May-15-12	29	174
	Generators	1		125	Diesel			10	Apr-16-12	May-15-12	29	290
	Employee Vehicle	30		150	Gasoline	1.5	person/day	1.5	Apr-16-12	May-15-12	29	1305

Phase 1. Continued

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Process Platforms, Utility Supports and Catwalk Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	May-16-12	Jun-1-12	16	32
	Delivery, Flatbed	8	International 4700	195	Diesel			2			10	160
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			10	160
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			10	100
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	May-16-12	Jun-1-12	16	96
	Generators	1		125	Diesel			10	May-16-12	Jun-1-12	16	160
	Employee Vehicle	20		150	Gasoline	1.5	person/day	1.5	May-16-12	Jun-1-12	16	480
Fermenter Tank Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	May-20-12	Jun-5-12	16	32
	Delivery, Flatbed	3	International 4700	195	Diesel			2			15	90
	Delivery, Tractor Trailer	3	Peterbilt 389	435	Diesel			2			10	60
	Delivery, Box Truck	3	Peterbilt 210	220	Diesel			2			5	30
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			8	May-20-12	Jun-5-12	16	128
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	8	May-20-12	Jun-5-12	16	128
	Generators	1		125	Diesel			10	May-20-12	Jun-5-12	16	160
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	May-20-12	Jun-5-12	16	240
Cellar Tank Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	May-20-12	Jun-5-12	16	32
	Delivery, Flatbed	3	International 4700	195	Diesel			2			15	90
	Delivery, Tractor Trailer	3	Peterbilt 389	435	Diesel			2			10	60
	Delivery, Box Truck	3	Peterbilt 210	220	Diesel			2			5	30
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			8	May-20-12	Jun-5-12	16	128
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	8	May-20-12	Jun-5-12	16	128
	Generators	1		125	Diesel			10	May-20-12	Jun-5-12	16	160
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	May-20-12	Jun-5-12	16	240
Equipment Installation	Delivery, Flatbed	8	International 4700	195	Diesel			2			10	160
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			10	160
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			10	100
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			6	May-20-12	Jun-5-12	16	96
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	May-20-12	Jun-5-12	16	96
	Generators	1		125	Diesel			10	May-20-12	Jun-5-12	16	160
	Employee Vehicle	35		150	Gasoline	1.5	person/day	1.5	May-20-12	Jun-5-12	16	840

Phase 1. Continued

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
												0
Process Piping, Mechanical & Electrical	Delivery, Flatbed	8	International 4700	195	Diesel			2			5	80
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			5	80
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			5	50
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	May-20-12	Jun-5-12	16	64
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	May-20-12	Jun-5-12	16	96
	Generators	1		125	Diesel			10	May-20-12	Jun-5-12	16	160
	Employee Vehicle	50		150	Gasoline	1.5	person/day	1.5	May-20-12	Jun-5-12	16	1200
Construct Roadways, Agg Base & Paving	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	4	Jun-15-12	Jun-30-12	15	60
	Wheeled Dozer	1	CAT 814F Series 2	232	Diesel	3.5	CY	6	Jun-15-12	Jun-30-12	15	90
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	8	Jun-15-12	Jun-30-12	15	360
	Dump Truck, Bottom Dump	5	Peterbilt 388	435	Diesel	20	CY	8	Jun-15-12	Jun-30-12	15	600
	Paver	1	CAT AP500E	142	Diesel	8	CY	8	Jun-15-12	Jun-30-12	15	120
	Vibratory Compactor	1	CAT CP76	174	Diesel	84	in	8	Jun-15-12	Jun-30-12	15	120
	Generators	1		125	Diesel			10	Jun-15-12	Jun-30-12	15	150
	Employee Vehicle	15		150	Gasoline	1.5	person/day	1.5	Jun-15-12	Jun-30-12	15	338

**Phase 2. Gallo Livingston East Expansion**

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Footing Excavation for Fermenters, Cellar Tanks, Process Equipment	Hydraulic Excavator, Medium	1	CAT 320D	148	Diesel	1	CY	8	Nov-1-12	Dec-1-12	30	240
	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	8	Nov-1-12	Dec-1-12	30	240
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	4	Nov-1-12	Dec-1-12	30	120
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	8	Nov-1-12	Dec-1-12	30	240
	Dump Truck, Standard	4	Peterbilt 378	435	Diesel	10	CY	8	Nov-1-12	Dec-1-12	30	960
	Generators	1		125	Diesel			10	Nov-1-12	Dec-1-12	30	300
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	Nov-1-12	Dec-1-12	30	450
Trenching, Underground Utility Installation and Backfill	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	6	Dec-2-12	Jan-1-13	30	180
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	4	Dec-2-12	Jan-1-13	30	120
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	8	Dec-2-12	Jan-1-13	30	240
	Trencher, Chain	1		40	Diesel	1	CY	8	Dec-2-12	Jan-1-13	30	240
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	6	Dec-2-12	Jan-1-13	30	540
	Delivery, Flatbed	5	International 4700	195	Diesel			2			4	40
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	3	Dec-2-12	Jan-1-13	30	90
	Generators	1		125	Diesel			10	Dec-2-12	Jan-1-13	30	300
Employee Vehicle	15		150	Gasoline	1.5	person/day	1.5	Dec-2-12	Jan-1-13	30	675	
Form, Place Rebar and Concrete for Fermenters, Cellar Tanks, Process Equipment	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Jan-2-13	Feb-2-13	31	62
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	4	Jan-2-13	Feb-2-13	31	124
	Delivery, Flatbed	2	International 4700	195	Diesel			2			4	16
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	2	Jan-2-13	Feb-2-13	31	62
	Concrete Mixer Truck	8	Peterbilt 357	305	Diesel	10.5	CY	1	Jan-2-13	Feb-2-13	31	248
	Concrete Pump Truck	1	Mack MR688S	400	Diesel	150	CY/day	6	Jan-2-13	Feb-2-13	31	186
	Generators	1		125	Diesel			10	Jan-2-13	Feb-2-13	31	310
Employee Vehicle	25		150	Gasoline	1.5	person/day	1.5	Jan-2-13	Feb-2-13	31	1163	
Structural Steel Erection	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Feb-3-13	Mar-1-13	26	52
	Delivery, Flatbed	10	International 4700	195	Diesel			2			4	80
	Delivery, Tractor Trailer	10	Peterbilt 389	435	Diesel			2			4	80
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			4	40
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	Feb-3-13	Mar-1-13	26	104
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	Feb-3-13	Mar-1-13	26	156
	Generators	1		125	Diesel			10	Feb-3-13	Mar-1-13	26	260
	Employee Vehicle	30		150	Gasoline	1.5	person/day	1.5	Feb-3-13	Mar-1-13	26	1170

Phase 2. Continued

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Process Platforms, Utility Supports and Catwalk Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Mar-2-13	Mar-30-13	28	56
	Delivery, Flatbed	6	International 4700	195	Diesel			2			10	120
	Delivery, Tractor Trailer	3	Peterbilt 389	435	Diesel			2			10	60
	Delivery, Box Truck	4	Peterbilt 210	220	Diesel			2			10	80
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	Mar-2-13	Mar-30-13	28	168
	Generators	1		125	Diesel			10	Mar-2-13	Mar-30-13	28	280
	Employee Vehicle	20		150	Gasoline	1.5	person/day	1.5	Mar-2-13	Mar-30-13	28	840
Fermenter Tank Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Apr-1-13	Apr-16-13	15	30
	Delivery, Flatbed	8	International 4700	195	Diesel			2			5	80
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			5	80
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			5	50
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			8	Apr-1-13	Apr-16-13	15	120
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	8	Apr-1-13	Apr-16-13	15	120
	Generators	1		125	Diesel			10	Apr-1-13	Apr-16-13	15	150
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	Apr-1-13	Apr-16-13	15	225
Cellar Tank Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Apr-17-13	May-1-13	14	28
	Delivery, Flatbed	8	International 4700	195	Diesel			2			3	48
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			3	48
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			3	30
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			8	Apr-17-13	May-1-13	14	112
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	8	Apr-17-13	May-1-13	14	112
	Generators	1		125	Diesel			10	Apr-17-13	May-1-13	14	140
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	Apr-17-13	May-1-13	14	210
Process Building Foundations	Hydraulic Excavator, Medium	1	CAT 320D	148	Diesel	1	CY	4	May-2-13	May-15-13	13	52
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	May-2-13	May-30-13	28	56
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	3	May-2-13	May-15-13	13	39
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	4	May-2-13	May-15-13	13	156
	Concrete Mixer Truck	14	Peterbilt 357	305	Diesel	10.5	CY	8	May-15-13	May-25-13	10	1120
	Concrete Pump Truck	1	Mack MR688S	400	Diesel	150	CY/day	8	May-15-13	May-25-13	10	80
	Delivery, Flatbed	1	International 4700	195	Diesel			1			5	5
	Delivery, Tractor Trailer	2	Peterbilt 389	435	Diesel			2			5	20
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	4	May-2-13	May-30-13	28	112
	Generators	1		125	Diesel			10	May-2-13	May-30-13	28	280
	Employee Vehicle	15		150	Gasoline	1.5	person/day	1.5	May-2-13	May-30-13	28	630

Phase 2. Continued

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Process Building Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Jun-1-13	Jul-15-13	44	88
	Delivery, Flatbed	10	International 4700	195	Diesel			2			20	400
	Delivery, Tractor Trailer	10	Peterbilt 389	435	Diesel			2			20	400
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			20	200
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	Jun-10-13	Jul-15-13	35	140
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	Jun-1-13	Jul-15-13	44	264
	Generators	1		125	Diesel			10	Jun-1-13	Jul-15-13	44	440
	Employee Vehicle	60		150	Gasoline	1.5	person/day	1.5	Jun-1-13	Jul-15-13	44	3960
Equipment Installation	Delivery, Flatbed	4	International 4700	195	Diesel			2			10	80
	Delivery, Tractor Trailer	4	Peterbilt 389	435	Diesel			2			10	80
	Delivery, Box Truck	3	Peterbilt 210	220	Diesel			2			10	60
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	Jul-15-13	Jul-31-13	16	64
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	Jul-15-13	Jul-31-13	16	96
	Generators	1		125	Diesel			10	Jul-15-13	Jul-31-13	16	160
	Employee Vehicle	40		150	Gasoline	1.5	person/day	1.5	Jul-15-13	Jul-31-13	16	960
	Process Piping, Mechanical & Electrical	Delivery, Flatbed	2	International 4700	195	Diesel			2			10
Delivery, Tractor Trailer		2	Peterbilt 389	435	Diesel			2			10	40
Delivery, Box Truck		2	Peterbilt 210	220	Diesel			2			10	40
Truck Crane		1	Link Belt HTT-8690	445	Diesel			4	Jun-15-13	Jul-31-13	46	184
Telehandler		1	CAT TL642	99	Diesel	6500	lb	6	Jun-15-13	Jul-31-13	46	276
Generators		1		125	Diesel			10	Jun-15-13	Jul-31-13	46	460
Employee Vehicle		40		150	Gasoline	1.5	person/day	1.5	Jun-15-13	Jul-31-13	46	2760
Construct Roadways, Agg Base & Paving		Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	4	Jun-15-13	Jun-30-13	15
	Wheeled Dozer	1	CAT 814F Series 2	232	Diesel	3.5	CY	6	Jun-15-13	Jun-30-13	15	90
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	8	Jun-15-13	Jun-30-13	15	360
	Dump Truck, Bottom Dump	5	Peterbilt 388	435	Diesel	20	CY	8	Jun-15-13	Jun-30-13	15	600
	Paver	1	CAT AP500E	142	Diesel	8	CY	8	Jun-15-13	Jun-30-13	15	120
	Vibratory Compactor	1	CAT CP76	174	Diesel	84	in	8	Jun-15-13	Jun-30-13	15	120
	Generators	1		125	Diesel			10	Jun-15-13	Jun-30-13	15	150
	Employee Vehicle	15		150	Gasoline	1.5	person/day	1.5	Jun-15-13	Jun-30-13	15	338

**Phase 3. Gallo Livingston East Expansion**

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Footing Excavation for Fermenters, Cellar Tanks, Process Equipment	Hydraulic Excavator, Medium	1	CAT 320D	148	Diesel	1	CY	6	Nov-1-13	Dec-1-13	30	180
	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	8	Nov-1-13	Dec-1-13	30	240
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	4	Nov-1-13	Dec-1-13	30	120
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	8	Nov-1-13	Dec-1-13	30	240
	Dump Truck, Standard	3	Peterbilt 378	435	Diesel	10	CY	8	Nov-1-13	Dec-1-13	30	720
	Generators	1		125	Diesel			10	Nov-1-13	Dec-1-13	30	300
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	Nov-1-13	Dec-1-13	30	450
Trenching, Underground Utility Installation and Backfill	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	6	Dec-2-13	Jan-1-14	30	180
	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	4	Dec-2-13	Jan-1-14	30	120
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	6	Dec-2-13	Jan-1-14	30	180
	Trencher, Chain	1		40	Diesel	1	CY	8	Dec-6-13	Dec-15-13	9	72
	Dump Truck, Standard	2	Peterbilt 378	435	Diesel	10	CY	6	Dec-2-13	Jan-1-14	30	360
	Delivery, Flatbed	5	International 4700	195	Diesel			2			4	40
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	3	Dec-2-13	Jan-1-14	30	90
	Generators	1		125	Diesel			10	Dec-2-13	Jan-1-14	30	300
Employee Vehicle	15		150	Gasoline	1.5	person/day	1.5	Dec-2-13	Jan-1-14	30	675	
Form, Place Rebar and Concrete for Fermenters, Cellar Tanks, Process Equipment	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	3	Jan-2-14	Feb-2-14	31	93
	Backhoe	1	CAT 430E	102	Diesel	0.5	CY	4	Jan-2-14	Feb-2-14	31	124
	Delivery, Flatbed	2	International 4700	195	Diesel			2			4	16
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	2	Jan-2-14	Feb-2-14	31	62
	Concrete Mixer Truck	8	Peterbilt 357	305	Diesel	10.5	CY	1	Jan-2-14	Feb-2-14	31	248
	Concrete Pump Truck	1	Mack MR688S	400	Diesel	150	CY/day	6	Jan-2-14	Feb-2-14	31	186
	Generators	1		125	Diesel			10	Jan-2-14	Feb-2-14	31	310
	Employee Vehicle	25		150	Gasoline	1.5	person/day	1.5	Jan-2-14	Feb-2-14	31	1163
Structural Steel Erection	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Feb-3-14	Mar-1-14	26	52
	Delivery, Flatbed	5	International 4700	195	Diesel			2			10	100
	Delivery, Tractor Trailer	5	Peterbilt 389	435	Diesel			2			10	100
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			10	100
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	Feb-3-14	Mar-1-14	26	104
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	Feb-3-14	Mar-1-14	26	156
	Generators	1		125	Diesel			10	Feb-3-14	Mar-1-14	26	260
	Employee Vehicle	30		150	Gasoline	1.5	person/day	1.5	Feb-3-14	Mar-1-14	26	1170

Phase 3. Continued

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Process Platforms, Utility Supports and Catwalk Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Mar-2-14	Mar-30-14	28	56
	Delivery, Flatbed	6	International 4700	195	Diesel			2			10	120
	Delivery, Tractor Trailer	3	Peterbilt 389	435	Diesel			2			10	60
	Delivery, Box Truck	4	Peterbilt 210	220	Diesel			2			10	80
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	Mar-2-14	Mar-30-14	28	168
	Generators	1		125	Diesel			10	Mar-2-14	Mar-30-14	28	280
	Employee Vehicle	20		150	Gasoline	1.5	person/day	1.5	Mar-2-14	Mar-30-14	28	840
Fermenter Tank Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Apr-1-14	Apr-16-14	15	30
	Delivery, Flatbed	8	International 4700	195	Diesel			2			5	80
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			5	80
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			5	50
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			8	Apr-1-14	Apr-16-14	15	120
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	8	Apr-1-14	Apr-16-14	15	120
	Generators	1		125	Diesel			10	Apr-1-14	Apr-16-14	15	150
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	Apr-1-14	Apr-16-14	15	225
Cellar Tank Installation	Skid Steer Loader	1	CAT 216B Series 3	47	Diesel	1	CY	2	Apr-17-14	May-1-14	14	28
	Delivery, Flatbed	8	International 4700	195	Diesel			2			3	48
	Delivery, Tractor Trailer	8	Peterbilt 389	435	Diesel			2			3	48
	Delivery, Box Truck	5	Peterbilt 210	220	Diesel			2			3	30
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			8	Apr-17-14	May-1-14	14	112
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	8	Apr-17-14	May-1-14	14	112
	Generators	1		125	Diesel			10	Apr-17-14	May-1-14	14	140
	Employee Vehicle	10		150	Gasoline	1.5	person/day	1.5	Apr-17-14	May-1-14	14	210
Equipment Installation	Delivery, Flatbed	4	International 4700	195	Diesel			2			10	80
	Delivery, Tractor Trailer	4	Peterbilt 389	435	Diesel			2			10	80
	Delivery, Box Truck	3	Peterbilt 210	220	Diesel			2			10	60
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	May-2-14	May-18-14	16	64
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	May-2-14	May-18-14	16	96
	Generators	1		125	Diesel			10	May-2-14	May-18-14	16	160
	Employee Vehicle	40		150	Gasoline	1.5	person/day	1.5	May-2-14	May-18-14	16	960

Phase 3. Continued

Activity	Equipment	Number per Day	Specification (assumed)	HP Rating	Fuel Type	Equipment Capacity	Unit	Average Hrs/Day (Each)	Start Date of Activity	End Date of Activity	Total Days of Operation	Total Hours of Operation
Process Piping, Mechanical & Electrical	Delivery, Flatbed	2	International 4700	195	Diesel			2			10	40
	Delivery, Tractor Trailer	2	Peterbilt 389	435	Diesel			2			10	40
	Delivery, Box Truck	2	Peterbilt 210	220	Diesel			2			10	40
	Truck Crane	1	Link Belt HTT-8690	445	Diesel			4	May-19-14	Jun-19-14	31	124
	Telehandler	1	CAT TL642	99	Diesel	6500	lb	6	May-19-14	Jun-19-14	31	186
	Generators	1		125	Diesel			10	May-19-14	Jun-19-14	31	310
	Employee Vehicle	40		150	Gasoline	1.5	person/day	1.5	May-19-14	Jun-19-14	31	1860
	Construct Roadways, Agg Base & Paving	Hydraulic Excavator, Small	1	CAT 314D	90	Diesel	0.5	CY	4	Jun-19-14	Jul-1-14	12
Wheeled Dozer		1	CAT 814F Series 2	232	Diesel	3.5	CY	6	Jun-19-14	Jul-1-14	12	72
Dump Truck, Standard		2	Peterbilt 378	435	Diesel	10	CY	8	Jun-19-14	Jul-1-14	12	192
Dump Truck, Bottom Dump		5	Peterbilt 388	435	Diesel	20	CY	8	Jun-19-14	Jul-1-14	12	480
Paver		1	CAT AP500E	142	Diesel	8	CY	8	Jun-19-14	Jul-1-14	12	96
Vibratory Compactor		1	CAT CP76	174	Diesel	84	in	8	Jun-19-14	Jul-1-14	12	96
Generators		1		125	Diesel			10	Jun-19-14	Jul-1-14	12	120
Employee Vehicle		15		150	Gasoline	1.5	person/day	1.5	Jun-19-14	Jul-1-14	12	270