Elam Construction
Kirtland Sand Gravel Aggregate Plants
Allowable Emission Rates

Haul Road Quarry Trucks
AP-42 13.2 (ver 11/06) "Unpaved Road"
Sand and Gravel Conditions - NMED Equation
Equation:
E = k(s/12)^a*(W/3)^b*[(365-p)/365]

k TSP	4.9		
k PM10	1.5		
k PM2.5	0.15		
a TSP	0.7		
a PM10	0.9		
a PM2.5	0.9		
b TSP	0.45		
b PM10	0.45		
b PM2.5	0.45		
% Silt Content = s	4.8	%	Sand and Gravel (AP-42 13.2.2-1)
precipitation days/yr	80	days	AP-42 Figure 13.2.2-1
Hours per year	2000	hrs	

Vehicle control 80 % water and base course

Aggregate Truck VMT 130.00 meters one way
0.16159105 miles/vehicle

Max. Aggregate Truck/hr 7.142857143 truck/hr 70 tons/load
14285.71429 truck/yr 500 tons/hr

Aggregate Truck VMT 1.154 miles/hr
2308.444 miles/yr

Aggregate Truck weight 66 tons

			TSP Controlled		
Max. Aggregate Truck Emissions	Base Course and Water	2.39	lbs/hr	1.87	tons/yr
			PM10Controlled		
Max. Aggregate Truck Emissions	Base Course and Water	0.61	lbs/hr	0.48	tons/yr
			PM2.5 Controlled		
Max. Aggregate Truck Emissions	Base Course and Water	0.06	lbs/hr	0.05	tons/yr

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
400 TPH

Mix Ratios

Aggregate	57.50%	230	tons/hr	230000	tons/yr
RAP	35.00%	140	tons/hr	140000	tons/yr
Mineral Filler	1.50%	6	tons/hr	6000	tons/yr
Asphalt Cement	6.00%	24	tons/hr	24000	tons/yr
Aggregate Total		376	tons/hr	376000	tons/yr
	Total	400	tons/hr	400000	tons/yr

Plant Hourly Average	400.0	tons/hr	
	1000.0	hrs/yr	Based on Annual and Hourly Production Rates. Not a requested Permit Condition.
Uncontrolled hrs/yr of operation	8760.0	hrs/yr	
Exhaust Stack Temperature	275.0	deg F	
Exhaust Stack Moisture	21.7	%	
Exhaust Stack Flowrate	60000	ACFM	
Exhaust Stack Flowrate	18652	DSCFM	
NSPS	0.04	gr/dscf	
Annual tons per year	400000	tpy	

Aggregate/RAP Handling Storage Piles

AP-42 Section 13.2.4 "Aggregate Handling"
Ver 11/2006

E(TSP) =	0.00660	lbs/ton	AP-42 13.2.4 (11/06)	E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton	
E(PM10) =	0.00312	lbs/ton	Max tph	370.0 tph	
E(PM2.5) =	0.00047	lbs/ton	k(tsp)	0.74	
			k(pm10)	0.35	
E(TSP) =	0.00465	lbs/ton	k(pm2.5)	0.053	
E(PM10) =	0.00220	lbs/ton	U Maximum	11.0 MPH	NMED Default
E(PM2.5) =	0.00033	lbs/ton	U Annual	8.4 MPH	1996-2006 Farmington Ave MPH
	370.0	tph	M	2 %	NMED Default

	lb/hr	tons/yr		
E(tsp) Uncontrolled	2.44193	7.53		
E(pm10) Uncontrolled	1.15497	3.56		
E(pm2.5) Uncontrolled	0.17489	0.54		
				Model lbs/hr
E(tsp) Controlled	2.44193	0.86	Annual Emissions are Controlled by Limiting Annual Production	1.71983
E(pm10) Controlled	1.15497	0.41	Annual Emissions are Controlled by Limiting Annual Production	0.81343
E(pm2.5) Controlled	0.17489	0.06	Annual Emissions are Controlled by Limiting Annual Production	0.12318

Aggregate Feed Bin Loading (Cold)

AP-42 Section 13.2.4 "Aggregate Handling"
Ver 11/2006

E(TSP) =	0.00660	lbs/ton	AP-42 13.2.4 (11/06)	E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton	
E(PM10) =	0.00312	lbs/ton	Max tph	230.0 tph	
E(PM2.5) =	0.00047	lbs/ton	k(tsp)	0.74	
			k(pm10)	0.35	
E(TSP) =	0.00465	lbs/ton	k(pm2.5)	0.053	
E(PM10) =	0.00220	lbs/ton	U Maximum	11.0 MPH	NMED Default
E(PM2.5) =	0.00033	lbs/ton	U Annual	8.4 MPH	1996-2006 Farmington Ave MPH
	230.0	tph	M	2 %	NMED Default

	lb/hr	tons/yr		
E(tsp) Uncontrolled	1.51796	4.68		
E(pm10) Uncontrolled	0.71795	2.21		
E(pm2.5) Uncontrolled	0.10872	0.34		
				Model lbs/hr
E(tsp) Controlled	1.51796	0.53	Annual Emissions are Controlled by Limiting Annual Production	1.71983
E(pm10) Controlled	0.71795	0.25	Annual Emissions are Controlled by Limiting Annual Production	0.81343
E(pm2.5) Controlled	0.10872	0.04	Annual Emissions are Controlled by Limiting Annual Production	0.12318

Aggregate Feed Bin Unloading

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"
Ver 8/2004

E(TSP) =	0.00300	lbs/ton
E(PM10) =	0.00110	lbs/ton
E(PM2.5) =	0.00017	lbs/ton

95.33 % Control Efficiency AP-42 Table 11.19.2-2

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"
Ver 8/2004

E(TSP) =	0.00014	lbs/hr
E(PM10) =	0.000046	lbs/ton
E(PM2.5) =	0.000013	lbs/ton
Throughput	230.0	tph

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.69000	3.022
E(pm10) Uncontrolled	0.25300	1.108
E(pm2.5) Uncontrolled	0.03910	0.171
E(tsp) Controlled	0.03220	0.016
E(pm10) Controlled	0.01058	0.005
E(pm2.5) Controlled	0.00299	0.001

Scalping Screen

AP-42 Table 11.19.2-2 "Screening Uncontrolled"
Ver 8/2004

E(TSP) =	0.02500	lbs/ton
E(PM10) =	0.00870	lbs/ton
E(PM2.5) =	0.00132	lbs/ton

91.20 % Control Efficiency AP-42 Table 11.19.2-2

AP-42 Table 11.19.2-2 "Screening Controlled"
Ver 8/2004

E(TSP) =	0.00220	lbs/hr
E(PM10) =	0.00074	lbs/ton
E(PM2.5) =	0.00005	lbs/ton
Throughput	230.0	tph

	lb/hr	tons/yr
E(tsp) Uncontrolled	5.75000	25.185
E(pm10) Uncontrolled	2.00100	8.764
E(pm2.5) Uncontrolled	0.30360	1.330
E(tsp) Controlled	0.50600	0.253
E(pm10) Controlled	0.17020	0.085
E(pm2.5) Controlled	0.01150	0.006

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
400 TPH

Scalping Screen Unloading

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton			
Ver 8/2004	E(PM10) =	0.00110	lbs/ton			
	E(PM2.5) =	0.00017	lbs/ton			
				95.33	% Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr			
Ver 8/2004	E(PM10) =	0.000046	lbs/ton			
	E(PM2.5) =	0.000013	lbs/ton			
Throughput		230.0	tph			

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.69000	3.022
E(pm10) Uncontrolled	0.25300	1.108
E(pm2.5) Uncontrolled	0.03910	0.171
E(tsp) Controlled	0.03220	0.016
E(pm10) Controlled	0.01058	0.005
E(pm2.5) Controlled	0.00299	0.001

Pug Mill

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton			
Ver 8/2004	E(PM10) =	0.00110	lbs/ton			
	E(PM2.5) =	0.00017	lbs/ton			
				95.33	% Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr			
Ver 8/2004	E(PM10) =	0.000046	lbs/ton			
	E(PM2.5) =	0.000013	lbs/ton			
Throughput		236.0	tph			

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.70800	3.101
E(pm10) Uncontrolled	0.25960	1.137
E(pm2.5) Uncontrolled	0.04012	0.176
E(tsp) Controlled	0.03304	0.017
E(pm10) Controlled	0.01086	0.005
E(pm2.5) Controlled	0.00307	0.002

Pug Mill Unloading to Scale Conveyor

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton			
Ver 8/2004	E(PM10) =	0.00110	lbs/ton			
	E(PM2.5) =	0.00017	lbs/ton			
				95.33	% Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr			
Ver 8/2004	E(PM10) =	0.000046	lbs/ton			
	E(PM2.5) =	0.000013	lbs/ton			
Throughput		236.0	tph			

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.70800	3.101
E(pm10) Uncontrolled	0.25960	1.137
E(pm2.5) Uncontrolled	0.04012	0.176
E(tsp) Controlled	0.03304	0.017
E(pm10) Controlled	0.01086	0.005
E(pm2.5) Controlled	0.00307	0.002

Scale Conveyor Transfer to Slinger Conveyor

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton			
Ver 8/2004	E(PM10) =	0.00110	lbs/ton			
	E(PM2.5) =	0.00017	lbs/ton			
				95.33	% Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr			
Ver 8/2004	E(PM10) =	0.000046	lbs/ton			
	E(PM2.5) =	0.000013	lbs/ton			
Throughput		236.0	tph			

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.70800	3.101
E(pm10) Uncontrolled	0.25960	1.137
E(pm2.5) Uncontrolled	0.04012	0.176
E(tsp) Controlled	0.03304	0.017
E(pm10) Controlled	0.01086	0.005
E(pm2.5) Controlled	0.00307	0.002

RAP Feed Bin Loading

AP-42 Section 13.2.4 "Aggregate Handling"	E(TSP) =	0.00198	lbs/ton	AP-42 13.2.4 (11/06)	E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton		
Ver 11/2006	E(PM10) =	0.00094	lbs/ton	Max tph	140.0	tph	
	E(PM2.5) =	0.00014	lbs/ton	k(tsp)	0.74		
				k(pm10)	0.35		
	E(TSP) =	0.00139	lbs/ton	k(pm2.5)	0.053		
	E(PM10) =	0.00066	lbs/ton	U Maximum	11.0	MPH	NMED Default
	E(PM2.5) =	0.00010	lbs/ton	U Annual	8.4	MPH	1996-2006 Farmington Ave MPH
		140.0	tph	M	2	%	NMED Default
				RAP Inherent Material Properties	70	% Reduction	"EIIP – Preferred and Alternative Methods for Estimating Air Emissions from Hot-Mix-Asphalt Plants, Final Report, July 1996, Table 3.2-1 Fugitive Dust – Crushed RAP material"EPA

	lb/hr	tons/yr		Model lbs/hr
E(tsp) Uncontrolled	0.27719	0.86		
E(pm10) Uncontrolled	0.13110	0.40		
E(pm2.5) Uncontrolled	0.01985	0.06		
E(tsp) Controlled	0.27719	0.10	Annual Emissions are Controlled by Limiting Annual Production	0.19522
E(pm10) Controlled	0.13110	0.05	Annual Emissions are Controlled by Limiting Annual Production	0.09234
E(pm2.5) Controlled	0.01985	0.01	Annual Emissions are Controlled by Limiting Annual Production	0.01398

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
400 TPH

RAP Feed Bin Unloading

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton		
Ver 8/2004	E(PM10) =	0.00110	lbs/ton		
	E(PM2.5) =	0.00017	lbs/ton		
				95.33 % Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr		
Ver 8/2004	E(PM10) =	0.000046	lbs/ton		
	E(PM2.5) =	0.000013	lbs/ton		
Throughput		140.0	tph		

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.42000	1.840
E(pm10) Uncontrolled	0.15400	0.675
E(pm2.5) Uncontrolled	0.02380	0.104
E(tsp) Controlled	0.01960	0.010
E(pm10) Controlled	0.00644	0.003
E(pm2.5) Controlled	0.00182	0.001

RAP Scalping Screen

AP-42 Table 11.19.2-2 "Screening Uncontrolled"	E(TSP) =	0.02500	lbs/ton		
Ver 8/2004	E(PM10) =	0.00870	lbs/ton		
	E(PM2.5) =	0.00132	lbs/ton		
				91.20 % Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Screening Controlled"	E(TSP) =	0.00220	lbs/hr		
Ver 8/2004	E(PM10) =	0.00074	lbs/ton		
	E(PM2.5) =	0.00005	lbs/ton		
Throughput		140.0	tph		

	lb/hr	tons/yr
E(tsp) Uncontrolled	3.50000	15.330
E(pm10) Uncontrolled	1.21800	5.335
E(pm2.5) Uncontrolled	0.18480	0.809
E(tsp) Controlled	0.30800	0.154
E(pm10) Controlled	0.10360	0.052
E(pm2.5) Controlled	0.00700	0.004

RAP Sscalping Screen Unloading

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton		
Ver 8/2004	E(PM10) =	0.00110	lbs/ton		
	E(PM2.5) =	0.00017	lbs/ton		
				95.33 % Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr		
Ver 8/2004	E(PM10) =	0.000046	lbs/ton		
	E(PM2.5) =	0.000013	lbs/ton		
Throughput		140.0	tph		

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.42000	1.840
E(pm10) Uncontrolled	0.15400	0.675
E(pm2.5) Uncontrolled	0.02380	0.104
E(tsp) Controlled	0.01960	0.010
E(pm10) Controlled	0.00644	0.003
E(pm2.5) Controlled	0.00182	0.001

RAP Transfer Conveyor to Conveyor

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton		
Ver 8/2004	E(PM10) =	0.00110	lbs/ton		
	E(PM2.5) =	0.00017	lbs/ton		
				95.33 % Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr		
Ver 8/2004	E(PM10) =	0.000046	lbs/ton		
	E(PM2.5) =	0.000013	lbs/ton		
Throughput		140.0	tph		

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.42000	1.840
E(pm10) Uncontrolled	0.15400	0.675
E(pm2.5) Uncontrolled	0.02380	0.104
E(tsp) Controlled	0.01960	0.010
E(pm10) Controlled	0.00644	0.003
E(pm2.5) Controlled	0.00182	0.001

RAP Transfer Conveyor to Drum

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"	E(TSP) =	0.00300	lbs/ton		
Ver 8/2004	E(PM10) =	0.00110	lbs/ton		
	E(PM2.5) =	0.00017	lbs/ton		
				95.33 % Control Efficiency	AP-42 Table 11.19.2-2
AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(TSP) =	0.00014	lbs/hr		
Ver 8/2004	E(PM10) =	0.000046	lbs/ton		
	E(PM2.5) =	0.000013	lbs/ton		
Throughput		140.0	tph		

	lb/hr	tons/yr
E(tsp) Uncontrolled	0.42000	1.840
E(pm10) Uncontrolled	0.15400	0.675
E(pm2.5) Uncontrolled	0.02380	0.104
E(tsp) Controlled	0.01960	0.010
E(pm10) Controlled	0.00644	0.003
E(pm2.5) Controlled	0.00182	0.001

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
400 TPH

Mineral Filler Silo

Uncontrolled emissions based on AP-42 Section 11.12 "Concrete Batching" Table 11.12-2 "Cement Unloading to Elevated Storage Silo"

E(TSP) =	0.72	lbs/ton	Uncontrolled Cement Silo Loading TSP
E(PM10) =	0.46	lbs/ton	Uncontrolled Cement Silo Loading PM10
E(PM2.5) =	0.036	lbs/ton	Uncontrolled Cement Silo Loading PM2.5 (TSP * 0.05025; Table 11.12-3 Uncontrolled)

Max tph Mineral Filler	25	tph Max	6	tph Ave	52560.00 tons/yr uncontrolled
					6000.00 tons/yr controlled

	lb/hr	lb/hr Ave	tons/yr
E(tsp) uncontrolled cement	18.00000	4.32000	18.922
E(pm10) uncontrolled cement	11.50000	2.76000	12.089
E(pm2.5) uncontrolled cement	0.90000	0.21600	0.946

Baghouse Control Efficiency	99.0	%	Engineering Judgement based on lower end of Baghouse Controls

Uncontrolled emissions based on AP-42 Section 11.12 "Concrete Batching" Table 11.12-2 "Cement Unloading to Elevated Storage Silo" and %CE

E(TSP) =	0.0072	lbs/ton	Controlled Cement Silo Loading TSP
E(PM10) =	0.0046	lbs/ton	Controlled Cement Silo Loading PM10
E(PM2.5) =	0.00036	lbs/ton	Controlled Cement Silo Loading PM2.5 (TSP * 0.06; Table 11.12-3 Controlled K factors)

	lb/hr	lb/hr Ave	tons/yr
E(tsp) controlled	0.18000	0.04320	0.022
E(pm10) controlled	0.11500	0.02760	0.014
E(pm2.5) controlled	0.00900	0.00216	0.001

Aspahlt Cement Storage Tank

TANKS 4.0.9d

Tank capacity	20000	gallons	
Tons Per Hour	24	tons	
Tons Per Year	24000	tons	
Density	9.22	lbs/gallon	
Gallons Per Hour	5206.1	gal/hr	
Gallons Per Year	5206073.8	gal/yr	
Tank Temperature	325	degrees f	
Turnovers	260.3036876	per year	
Working Loss TOC	123.42	lbs/yr	
Breathing Loss TOC	0	lbs/yr	
Total TOC	123.42	lbs/yr	
Total TOC	0.014	lbs/hr	
Total TOC	0.062	tpy	
Total Asphalt Fumes	0.00018	lbs/hr	1.3% of VOC
Total Asphalt Fumes	0.00080	tpy	1.3% of VOC

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
400 TPH

Drum Mixer Emissions

Uncontrolled emissions based on AP-42 Section 11.1 "Hot Mix Asphalt Plants" Table 11.1-3, -4, -7, -8, -14

E(TSP) =	28.000	lbs/ton	Uncontrolled Drum Mixer	
E(PM10) =	6.500	lbs/ton	Uncontrolled Drum Mixer	
E(PM2.5) =	1.565	lbs/ton	Uncontrolled Drum Mixer	Table 11.1-4 plus condensable
E(NOx) =	0.055	lbs/ton	Uncontrolled Drum Mixer	
E(CO) =	0.130	lbs/ton	Uncontrolled Drum Mixer	
E(SO2) =	0.058	lbs/ton	Uncontrolled Drum Mixer	
E(VOC) =	0.032	lbs/ton	Uncontrolled Drum Mixer	
E(Asphalt Fumes) =	0.012	lbs/ton	Uncontrolled Drum Mixer	Table 11.1-3 Organic Condensable
E(CO) Silo Filling =	0.001179981	lbs/ton	Uncontrolled Drum Unloading CO	
E(TOC) Silo Filling =	0.012186685	lbs/ton	Uncontrolled Drum Unloading TOC	
E(Asphalt Fumes) Silo Filling =	0.000188603	lbs/ton	Uncontrolled Drum Unloading PM	
E(TSP) Silo Filling =	0.000585889	lbs/ton	Uncontrolled Drum Unloading PM	
E(PM10) Silo Filling =	0.000585889	lbs/ton	Uncontrolled Drum Unloading PM	
E(PM2.5) Silo Filling =	0.000585889	lbs/ton	Uncontrolled Drum Unloading PM	
E(CO) Plant Unloading =	0.001349240	lbs/ton	Uncontrolled Silo Loading CO	
E(TOC) Plant Unloading =	0.004158948	lbs/ton	Uncontrolled Silo Loading TOC	
E(Asphalt Fumes) Plant Unloading =	0.000087048	lbs/ton	Uncontrolled Silo Loading PM Organic	
E(TSP) Plant Unloading =	0.000521937	lbs/ton	Uncontrolled Silo Loading PM	
E(PM10) Plant Unloading =	0.000521937	lbs/ton	Uncontrolled Silo Loading PM	
E(PM2.5) Plant Unloading =	0.000521937	lbs/ton	Uncontrolled Silo Loading PM	
E(CO) Yard =	0.000352000	lbs/ton	Uncontrolled Yard CO	
E(TOC) Yard =	0.001100000	lbs/ton	Uncontrolled Yard TOC	

TSP	11200.00	lbs/hr	49056.00	tons/yr	
PM10	2600.00	lbs/hr	11388.00	tons/yr	
PM2.5	626.00	lbs/hr	2741.88	tons/yr	
NOx	22.00	lbs/hr	96.36	tons/yr	
CO	52.00	lbs/hr	227.76	tons/yr	
SO2	23.20	lbs/hr	101.62	tons/yr	
VOC	12.80	lbs/hr	56.06	tons/yr	
Asphalt Fumes	4.80	lbs/hr	21.02	tons/yr	
CO Silo Filling	0.47	lbs/hr	2.07	tons/yr	
TOC Silo Filling	4.87	lbs/hr	21.4	tons/yr	
Asphalt Fumes Silo Filling	0.075	lbs/hr	0.33	tons/yr	
TSP Silo Filling	0.23	lbs/hr	1.03	tons/yr	
PM10 Silo Filling	0.23	lbs/hr	1.03	tons/yr	
PM2.5 Silo Filling	0.23	lbs/hr	1.03	tons/yr	
CO Plant Unloading	0.54	lbs/hr	2.36	tons/yr	
TOC Plant Unloading	1.66	lbs/hr	7.29	tons/yr	
Asphalt Fumes Plant Unloading	0.03	lbs/hr	0.15	tons/yr	
TSP Plant Unloading	0.21	lbs/hr	0.91	tons/yr	
PM10 Plant Unloading	0.21	lbs/hr	0.91	tons/yr	
PM2.5 Plant Unloading	0.21	lbs/hr	0.91	tons/yr	
CO Yard	0.14	lbs/hr	0.62	tons/yr	
TOC Yard	0.44	lbs/hr	1.93	tons/yr	
Asphalt Fumes Yard	0.01	lbs/hr	0.03	tons/yr	1.5% of TOC

Controlled emissions based on AP-42 Section 11.1 "Hot Mix Asphalt Plants" Table 11.1-3, -7, -8, -14

E(TSP) =	0.033	lbs/ton	Controlled Drum Mixer	99.88	% Control Efficiency	AP-42 Section 11.1
E(PM10) =	0.023	lbs/ton	Controlled Drum Mixer			
E(PM2.5) =	0.023	lbs/ton	Controlled Drum Mixer			
E(NOx) =	0.055	lbs/ton	Controlled Drum Mixer			
E(CO) =	0.130	lbs/ton	Controlled Drum Mixer			
E(CO2) =	33.000	lbs/ton	Controlled Drum Mixer			
E(CH4) =	0.012	lbs/ton	Controlled Drum Mixer			
E(SO2) =	0.058	lbs/ton	Controlled Drum Mixer			
E(VOC) =	0.032	lbs/ton	Controlled Drum Mixer			
E(Asphalt Fumes) =	0.012	lbs/ton	Controlled Drum Mixer		Table 11.1-3 Organic Condensable	
E(CO) Silo Filling =	0.001179981	lbs/ton	Controlled Drum Unloading CO			
E(TOC) Silo Filling =	0.012186685	lbs/ton	Controlled Drum Unloading TOC			
E(Asphalt Fumes) Silo Filling =	0.000188603	lbs/ton	Controlled Drum Unloading TOC			
E(TSP) Silo Filling =	0.000585889	lbs/ton	Controlled Drum Unloading PM			
E(PM10) Silo Filling =	0.000585889	lbs/ton	Controlled Drum Unloading PM			
E(PM2.5) Silo Filling =	0.000585889	lbs/ton	Controlled Drum Unloading PM			
E(CO) Plant Unloading =	0.001349240	lbs/ton	Controlled Silo Loading CO			
E(TOC) Plant Unloading =	0.004158948	lbs/ton	Controlled Silo Loading TOC			
E(Asphalt Fumes) Plant Unloading =	0.000087048	lbs/ton	Controlled Silo Loading PM Organic			
E(TSP) Plant Unloading =	0.000521937	lbs/ton	Controlled Silo Unloading PM			
E(PM10) Plant Unloading =	0.000521937	lbs/ton	Controlled Silo Unloading PM			
E(PM2.5) Plant Unloading =	0.000521937	lbs/ton	Controlled Silo Unloading PM			
E(CO) Yard =	0.000352000	lbs/ton	Controlled Yard CO			
E(TOC) Yard =	0.001100000	lbs/ton	Controlled Yard TOC			

TSP	13.20	lbs/hr	6.60	tons/yr	AP-42 11.1
PM10	9.20	lbs/hr	4.60	tons/yr	
PM2.5	9.20	lbs/hr	4.60	tons/yr	
NOx	22.00	lbs/hr	11.00	tons/yr	
CO	52.00	lbs/hr	26.00	tons/yr	
CO2	13200.00	lbs/hr	6600.00	tons/yr	
CH4	4.80	lbs/hr	2.40	tons/yr	
SO2	23.20	lbs/hr	11.60	tons/yr	
VOC	12.80	lbs/hr	6.40	tons/yr	
Asphalt Fumes	4.80	lbs/hr	2.40	tons/yr	
CO Silo Filling	0.47	lbs/hr	0.24	tons/yr	
TOC Silo Filling	4.87	lbs/hr	2.44	tons/yr	
Asphalt Fumes Silo Filling	0.075	lbs/hr	0.04	tons/yr	
TSP Silo Filling	0.23	lbs/hr	0.12	tons/yr	
PM10 Silo Filling	0.23	lbs/hr	0.12	tons/yr	
PM2.5 Silo Filling	0.23	lbs/hr	0.12	tons/yr	
CO Plant Unloading	0.54	lbs/hr	0.27	tons/yr	
TOC Plant Unloading	1.66	lbs/hr	0.83	tons/yr	
Asphalt Fumes Plant Unloading	0.035	lbs/hr	0.02	tons/yr	
TSP Plant Unloading	0.21	lbs/hr	0.10	tons/yr	
PM10 Plant Unloading	0.21	lbs/hr	0.10	tons/yr	
PM2.5 Plant Unloading	0.21	lbs/hr	0.10	tons/yr	
CO Yard	0.14	lbs/hr	0.070	tons/yr	
TOC Yard	0.44	lbs/hr	0.22	tons/yr	
Asphalt Fumes Yard	0.0066	lbs/hr	0.003	tons/yr	1.5% of TOC

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
400 TPH

Haul Road Traffic

AP-42 13.2 Unpaved Road (11/06)

Equation:

E = k(s/12)^a*(W/3)^b*[(365-p)/365] *Annual emissions only include p factor*

k TSP	4.9		
k PM10	1.5		
k PM25	0.15		
a TSP	0.7		
a PM10	0.9		
a PM25	0.9		
b TSP	0.45		
b PM10	0.45		
b PM25	0.45		
% Silt Content = s	4.8 %	Sand and Gravel (AP-42 13.2.2-1)	
p = days with precipitation over 0.01 inches	70		
Vehicle control	90.0 %	Surfactants/millings and water	

Mineral Filler Truck VMT Unpaved	769.5	meter/one way vehicle	25	tons/load	6	tons/hr	0.95652 miles/vehicle
Asphalt Cement Truck VMT Unpaved	769.5	meter/one way vehicle	25	tons/load	24	tons/hr	0.95652 miles/vehicle
Asphalt Truck VMT Unpaved	769.5	meter/one way vehicle	25	tons/load	400	tons/hr	0.95652 miles/vehicle
RAP Truck VMTUnpaved	769.5	meter/one way vehicle	25	tons/load	140	tons/hr	0.95652 miles/vehicle

Max. Mineral Filler Truck/hr	0.2	truck/hr
Max. Asphalt Cement Truck/hr	1.0	truck/hr
Max. Asphalt Truck/hr	16.0	truck/hr
Max. RAP Truck/hr	5.6	truck/hr
Max. Total Truck into Site	22.8	truck/hr

Mineral Filler Truck VMT Unpaved	0.22956	miles/hr	229.5645652	229.5645652
Asphalt Cement Truck VMT Unpaved	0.91826	miles/hr	918.2582609	918.2582609
Asphalt Truck VMT Unpaved	15.30430	miles/hr	15304.30435	15304.30435
RAP Truck VMTUnpaved	5.35651	miles/hr	5356.506522	5356.506522
	21.809	miles/hr	21808.634	21808.634

Mineral Filler Truck weight	27.5 tons
Asphalt Cement Truck weight	27.5 tons
Asphalt Truck weight	27.5 tons
RAP Truck weight	27.5 tons

		TSP Uncontrolled		TSP Control	
Max. Mineral Filler Truck Emissions Unpaved	1.61 lbs/hr	0.65 tons/yr	0.16 lbs/hr	0.065 tons/yr	
Max. Asphalt Cement Truck Emissions Unpaved	6.42 lbs/hr	2.59 tons/yr	0.64 lbs/hr	0.26 tons/yr	
Max. Asphalt Truck Emissions Unpaved	107.02 lbs/hr	43.25 tons/yr	10.70 lbs/hr	4.32 tons/yr	
Max. RAP Truck Emissions Unpaved	37.46 lbs/hr	15.14 tons/yr	3.75 lbs/hr	1.51 tons/yr	
total traffic	152.50 lbs/hr	61.63 tons/yr	15.25 lbs/hr	6.16 tons/yr	
		PM10 Uncontrolled		PM10 Control	
Max. Mineral Filler Truck Emissions Unpaved	0.41 lbs/hr	0.17 tons/yr	0.041 lbs/hr	0.017 tons/yr	
Max. Asphalt Cement Truck Emissions Unpaved	1.64 lbs/hr	0.66 tons/yr	0.16 lbs/hr	0.066 tons/yr	
Max. Asphalt Truck Emissions Unpaved	27.27 lbs/hr	11.02 tons/yr	2.73 lbs/hr	1.10 tons/yr	
Max. RAP Truck Emissions Unpaved	9.55 lbs/hr	3.86 tons/yr	0.95 lbs/hr	0.39 tons/yr	
total traffic	38.87 lbs/hr	15.71 tons/yr	3.89 lbs/hr	1.57 tons/yr	
		PM2.5 Uncontrolled		PM2.5 Control	
Max. Mineral Filler Truck Emissions Unpaved	0.041 lbs/hr	0.017 tons/yr	0.0041 lbs/hr	0.0017 tons/yr	
Max. Asphalt Cement Truck Emissions Unpaved	0.16 lbs/hr	0.066 tons/yr	0.016 lbs/hr	0.0066 tons/yr	
Max. Asphalt Truck Emissions Unpaved	2.73 lbs/hr	1.10 tons/yr	0.27 lbs/hr	0.11 tons/yr	
Max. RAP Truck Emissions Unpaved	0.95 lbs/hr	0.39 tons/yr	0.095 lbs/hr	0.039 tons/yr	
total traffic	3.89 lbs/hr	1.57 tons/yr	0.39 lbs/hr	0.16 tons/yr	

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
Generator Emissions

Main Plant Generator CAT 3512 DITA

Manufacturer Specification NOx, CO, VOC, and PM Emissions

Engine Size	1000	kW	horsepower	1429	
	72.6	gal/hr	%sulfur	0.05	%

Uncontrolled Hours	8760
Controlled Hours	4800

Emission Factors

NOx	33.30	lbs/hr	
CO	5.00	lbs/hr	
VOC	1.10	lbs/hr	
SO2	0.52	lbs/hr	SO2 emissions based on fuel usage
TSP	0.31	lbs/hr	gal/hr times 7.0 lbs/gal times fuel %
PM10	0.31	lbs/hr	sulfur content times a factor of 2.
PM2.5	0.31	lbs/hr	
CO2	1599.40	lbs/hr	
CH4	0.000705	lbs/hp-hr	

Calculated Uncontrolled Emissions

NOx	33.30	lbs/hr	145.85	tons/yr
CO	5.00	lbs/hr	21.90	tons/yr
VOC	1.10	lbs/hr	4.82	tons/yr
SO2	0.52	lbs/hr	2.26	tons/yr
TSP	0.31	lbs/hr	1.36	tons/yr
PM10	0.31	lbs/hr	1.36	tons/yr
PM2.5	0.31	lbs/hr	1.36	tons/yr
CO2	1599.40	lbs/hr	7005.37	tons/yr
CH4	1.01	lbs/hr	4.41	tons/yr

Calculated Controlled Emissions

NOx	33.30	lbs/hr	79.92	tons/yr
CO	5.00	lbs/hr	12.00	tons/yr
VOC	1.10	lbs/hr	2.64	tons/yr
SO2	0.52	lbs/hr	1.24	tons/yr
TSP	0.31	lbs/hr	0.74	tons/yr
PM10	0.31	lbs/hr	0.74	tons/yr
PM2.5	0.31	lbs/hr	0.74	tons/yr
CO2	1599.40	lbs/hr	3838.56	tons/yr
CH4	1.01	lbs/hr	2.42	tons/yr

Plant Standby Generator

Tier 3 NOx, CO, VOC, and PM Emissions

Engine Size	118	kW	horsepower	158	
	6.1	gal/hr	%sulfur	0.05	%

Uncontrolled Hours	8760
Controlled Hours	3960

Emission Factors

NOx	4.00	gram/hp-hr	NMHC+NOx Emission Factor
CO	5.00	gram/hp-hr	
VOC	0.40	gram/hp-hr	10% of NMHC+NOx NMHC+NOx
SO2	0.043	lbs/hr	SO2 emissions based on fuel usage gal/hr
TSP	0.30	gram/hp-hr	times 7.0 lbs/gal times fuel % sulfur content
PM10	0.30	gram/hp-hr	times a factor of 2.
PM2.5	0.30	gram/hp-hr	
CO2	1.08	lbs/hp-hr	
CH4	0.000705	lbs/hp-hr	

Calculated Uncontrolled Emissions

NOx	1.04	lbs/hr	4.56	tons/yr
CO	1.30	lbs/hr	5.70	tons/yr
VOC	0.10	lbs/hr	0.46	tons/yr
SO2	0.043	lbs/hr	0.19	tons/yr
TSP	0.078	lbs/hr	0.34	tons/yr
PM10	0.078	lbs/hr	0.34	tons/yr
PM2.5	0.078	lbs/hr	0.34	tons/yr
CO2	170.6	lbs/hr	747.4	tons/yr
CH4	0.11	lbs/hr	0.49	tons/yr

Calculated Controlled Emissions

NOx	1.04	lbs/hr	2.06	tons/yr
CO	1.30	lbs/hr	2.58	tons/yr
VOC	0.10	lbs/hr	0.21	tons/yr
SO2	0.04	lbs/hr	0.086	tons/yr
TSP	0.078	lbs/hr	0.15	tons/yr
PM10	0.078	lbs/hr	0.15	tons/yr
PM2.5	0.078	lbs/hr	0.15	tons/yr
CO2	170.64	lbs/hr	337.9	tons/yr
CH4	0.11	lbs/hr	0.22	tons/yr

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
Hot Oil Heater Emissions

Asphalt Heater #1

AP-42 1.3 (5/10)

Heater Size			Diesel		
	1000000	BTU/hr	Heat Rate	128000	BTU/gal
	7.8	gal/hr	%sulfur	0.05	

Uncontrolled Hours	8760
Controlled Hours	8760

Emission Factors			
NOx	20.00	lbs/1000 gal	
CO	5.00	lbs/1000 gal	
VOC	0.34	lbs/1000 gal	
SO2	142S	lbs/1000 gal	S = % sulfur
PM	2.00	lbs/1000 gal	
CO2	22300.00	lbs/1000 gal	
CH4	0.216	lbs/1000 gal	
N2O	0.26	lbs/1000 gal	

Calculated Uncontrolled Emissions				
NOx	0.156	lbs/hr	0.684	tpy
CO	0.039	lbs/hr	0.171	tpy
VOC	0.0027	lbs/hr	0.012	tpy
SOx	0.055	lbs/hr	0.243	tpy
PM	0.016	lbs/hr	0.068	tpy
CO2	174.2	lbs/hr	763.1	tpy
CH4	0.0017	lbs/hr	0.0074	tpy
N2O	0.0020	lbs/hr	0.0089	tpy

Calculated Controlled Emissions				
NOx	0.16	lbs/hr	0.68	tpy
CO	0.039	lbs/hr	0.17	tpy
VOC	0.0027	lbs/hr	0.012	tpy
SOx	0.055	lbs/hr	0.24	tpy
PM	0.016	lbs/hr	0.068	tpy
CO2	174.2	lbs/hr	763.1	tpy
CH4	0.0017	lbs/hr	0.0074	tpy
N2O	0.0020	lbs/hr	0.0089	tpy

AP-42 1.5 (7/08)

Heater Size			Natural Gas or Propane		
	1000000	BTU/hr	Heat Rate	91500	BTU/gal
	10.9	gal/hr			

Uncontrolled Hours	8760
Controlled Hours	8760

Emission Factors		
NOx	13	lbs/1000 gal
CO	7.5	lbs/1000 gal
VOC	1	lbs/1000 gal
SO2	0.018	lbs/1000 gal
PM	0.7	lbs/1000 gal
CO2	12500	lbs/1000 gal
CH4	0.200	lbs/1000 gal
N2O	0.90	lbs/1000 gal

Calculated Uncontrolled Emissions				
NOx	0.14	lbs/hr	0.6	tpy
CO	0.08	lbs/hr	0.36	tpy
VOC	0.011	lbs/hr	0.05	tpy
SOx	0.00020	lbs/hr	0.0009	tpy
PM	0.008	lbs/hr	0.034	tpy
CO2	136.6	lbs/hr	598.4	tpy
CH4	0.0022	lbs/hr	0.0096	tpy
N2O	0.0098	lbs/hr	0.0431	tpy

Calculated Controlled Emissions				
NOx	0.14	lbs/hr	0.62	tpy
CO	0.082	lbs/hr	0.36	tpy
VOC	0.011	lbs/hr	0.048	tpy
SOx	0.00020	lbs/hr	0.00086	tpy
PM	0.0077	lbs/hr	0.034	tpy
CO2	136.6	lbs/hr	598.4	tpy
CH4	0.0022	lbs/hr	0.0096	tpy
N2O	0.0098	lbs/hr	0.043	tpy

Elam Construction - NSR Asphalt Mixing Plant Emission Summary
400 TPH

Uncontrolled Emission Totals

		NOx		CO		SO2		VOC		TSP		PM10		PM2.5		Asphalt Fumes	
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
52	Cold Aggregate/RAP Storage Pile									2.44	7.53	1.15	3.56	0.17	0.54		
53	Feed Bin Loading									1.52	4.68	0.72	2.21	0.11	0.34		
54	Feed Bin Unloading									0.69	3.02	0.25	1.11	0.04	0.17		
55	Scalping Screen									5.75	25.19	2.00	8.76	0.30	1.33		
56	Scalping Screen Unloading									0.69	3.02	0.25	1.11	0.039	0.17		
57	Pug Mill Load									0.71	3.10	0.26	1.14	0.040	0.18		
58	Pug Mill Unload									0.71	3.10	0.26	1.14	0.040	0.18		
59	Conveyor Transfer to Slinger Conveyor									0.71	3.10	0.26	1.14	0.040	0.18		
60	RAP Bin Loading									0.28	0.86	0.13	0.40	0.020	0.061		
61	RAP Bin Unloading									0.42	1.84	0.15	0.67	0.024	0.10		
62	RAP Screen									3.50	15.33	1.22	5.33	0.18	0.81		
63	RAP Screen Unloading									0.42	1.84	0.15	0.67	0.024	0.10		
64	RAP Transfer Conveyor									0.42	1.84	0.15	0.67	0.024	0.10		
65	RAP Transfer Conveyor									0.42	1.84	0.15	0.67	0.024	0.10		
66	Mineral Filler Silo Loading									18.00	18.92	11.50	12.09	0.90	0.95		
68	Drum Dryer	22.0	96.4	52.0	227.8	23.2	101.6	12.8	56.1	11200	49056	2600	11388	626	2742	4.8	21
70	Drum Mixer Unloading			0.47	2.07			4.87	21.4	0.23	1.03	0.23	1.03	0.23	1.03	0.075	0.33
71	Asphalt Silo Unloading			0.54	2.36			1.66	7.29	0.21	0.91	0.21	0.91	0.21	0.91	0.035	0.15
72	Asphalt Heater	0.16	0.68	0.082	0.36	0.055	0.24	0.011	0.048	0.016	0.068	0.016	0.068	0.016	0.068		
73	Asphalt Cement Storage Tank			***	***			0.014	0.062							0.00018	0.00080
74	HMA Main Plant Generator	33.3	145.9	5.00	21.9	0.52	2.26	1.10	4.82	0.31	1.36	0.31	1.36	0.31	1.36		
75	HMA Standby Generator	1.04	4.56	1.30	5.70	0.043	0.19	0.10	0.46	0.078	0.34	0.078	0.34	0.078	0.34		
76	Haul Road Traffic									152.5	61.6	38.9	15.7	3.89	1.57		
77	Yard			0.14	0.62			0.44	1.93							0.0066	0.029
	Total	**56**	**247**	**60**	**261**	**24**	**104**	**21**	**92**	**11390**	**49217**	**2658**	**11448**	**633**	**2752**	**4.9**	**22**
										18.67	76.29	7.12	28.61	1.09	4.36		

Controlled Emission Totals

		NOx		CO		SO2		VOC		TSP		PM10		PM2.5		Asphalt Fumes	
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
52	Cold Aggregate/RAP Storage Pile									2.44	0.86	1.15	0.41	0.17	0.062		
53	Feed Bin Loading									1.52	0.53	0.72	0.25	0.11	0.038		
54	Feed Bin Unloading									0.032	0.016	0.011	0.0053	0.0030	0.0015		
55	Scalping Screen									0.51	0.25	0.17	0.085	0.012	0.0058		
56	Scalping Screen Unloading									0.032	0.016	0.011	0.0053	0.0030	0.0015		
57	Pug Mill Load									0.033	0.017	0.011	0.0054	0.0031	0.0015		
58	Pug Mill Unload									0.033	0.017	0.011	0.0054	0.0031	0.0015		
59	Conveyor Transfer to Slinger Conveyor									0.033	0.017	0.011	0.0054	0.0031	0.0015		
60	RAP Bin Loading									0.28	0.10	0.13	0.046	0.020	0.0070		
61	RAP Bin Unloading									0.020	0.010	0.0064	0.0032	0.0018	0.00091		
62	RAP Screen									0.31	0.15	0.10	0.052	0.0070	0.0035		
63	RAP Screen Unloading									0.020	0.010	0.0064	0.0032	0.0018	0.00091		
64	RAP Transfer Conveyor									0.020	0.010	0.0064	0.0032	0.0018	0.00091		
65	RAP Transfer Conveyor									0.020	0.010	0.0064	0.0032	0.0018	0.00091		
67	Mineral Filler Silo Baghouse									0.18	0.022	0.12	0.014	0.0090	0.0011		
69	Drum Dryer Baghouse	22.0	11.0	52.0	26.0	23.2	11.6	12.8	6.40	13.2	6.60	9.20	4.60	9.20	4.60	4.80	2.40
70	Drum Mixer Unloading			0.47	0.24			4.87	2.44	0.23	0.12	0.23	0.12	0.23	0.12	0.075	0.038
71	Asphalt Silo Unloading			0.54	0.27			1.66	0.83	0.21	0.10	0.21	0.10	0.21	0.10	0.035	0.017
72	Asphalt Heater	0.16	0.68	0.082	0.36	0.055	0.24	0.011	0.05	0.016	0.068	0.016	0.068	0.016	0.068		
73	Asphalt Cement Storage Tank			***	***			0.014	0.062							0.00018	0.00080
74	HMA Main Plant Generator	33.3	79.9	5.00	12.0	0.52	1.24	1.10	2.64	0.31	0.74	0.31	0.74	0.31	0.74		
75	HMA Standby Generator	1.04	2.06	1.30	2.58	0.043	0.086	0.10	0.21	0.078	0.15	0.078	0.15	0.078	0.15		
76	Haul Road Traffic									15.25	6.16	3.89	1.57	0.39	0.16		
77	Yard			0.14	0.070			0.44	0.22							0.0066	0.0033
	Total	**56.5**	**93.7**	**59.5**	**41.5**	**23.8**	**13.2**	**21.0**	**12.8**	**34.8**	**16.0**	**16.4**	**8.26**	**10.8**	**6.07**	**4.92**	**2.46**

Insignificant - "***"

Section 8

Map(s)

A map such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

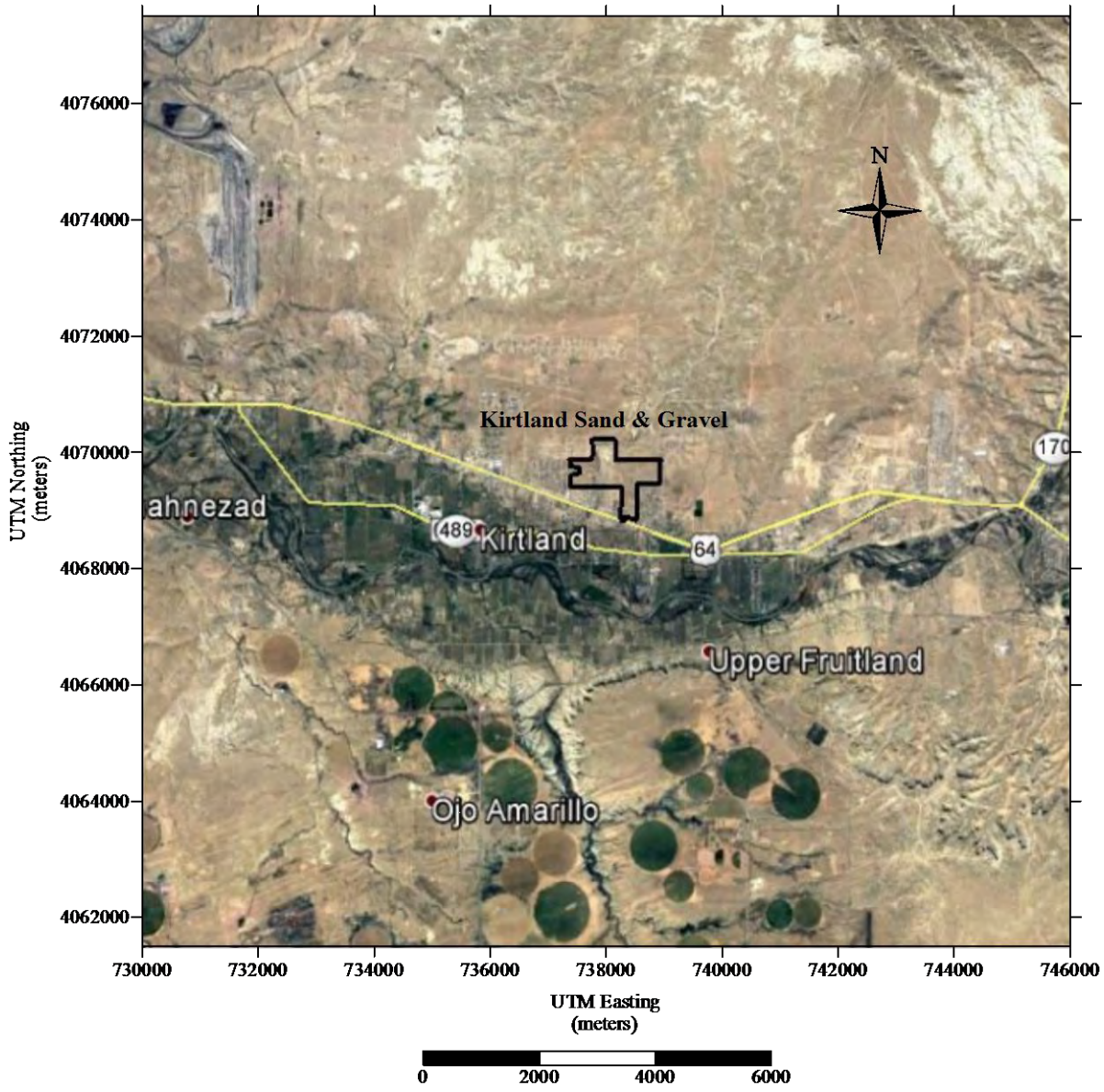


Figure 8-1: Aerial view of site and surrounding terrain

Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)
(This proof is required by: 20.2.72.203.A.14 NMAC "Documentary Proof of applicant's public notice")

☐ **I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications"**
This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant's Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

New Permit and **Significant Permit Revision** public notices must include all items in this list.

Technical Revision public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

1. ■ A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2. ■ A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
3. ■ A copy of the property tax record (20.2.72.203.B NMAC).
4. ■ A sample of the letters sent to the owners of record.
5. ■ A sample of the letters sent to counties, municipalities, and Indian tribes.
6. ■ A sample of the public notice posted and a verification of the local postings.
7. ■ A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8. ■ A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9. ■ A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
10. ■ A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
11. ■ A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.

Municipalities, Counties, and Indian Tribes List Within 10 Miles

City of Farmington
Dianne Smylie
City Clerk
800 Municipal Drive
Farmington, NM 87401

Town of Kirtland
Gwen Warner
Town Clerk
PO Box 1887
Kirtland, NM 87417

San Juan County Clerk
Tanya Shelby
San Juan County
100 South Oliver Drive, Suite 200
Aztec, NM 87410

Chapter President's Office
Upper Fruitland Chapter
P.O. Box 1257
Fruitland, NM 87416

Chapter President's Office
Tse Daa K'ann (Hogback) Chapter
P.O. Box 1288
Shiprock, NM 87420

Chapter President's Office
Nenahnezad Chapter
P.O. Box 438
Fruitland, NM 87416

Chapter President's Office
San Juan Chapter
P.O. Box 1636
Fruitland, NM 87416

Office of the President and Vice President
Navajo Nation
P.O. Box 7440
Window Rock, AZ 86515

Neighbor List Within 100 Feet

ANDREWS DANNY
47 ROAD 6200
KIRTLAND, NM 87417

BEGAY RENAE LEE
34 ROAD 6406
KIRTLAND, NM 87417

BEKIS MICHAEL D
6 ROAD 6401
KIRTLAND, NM 87417-0000

BIEL THOMAS G AND JOY K
TRUJILLO DORIS
PO BOX 415
CANJILON, NM 87515

BEYALE RENA
P O BOX 3114
SEAL BEACH, CA 90740-2114

BOLACK TOMMY TRUST
3901 BLOOMFIELD HWY
FARMINGTON, NM 87401

BRADSHAW BARBARA LYNN
2128 SUMMIT DR
FARMINGTON, NM 87401

BROWN GWEN
PO BOX 1111
KIRTLAND, NM 87417

BROWN LARRY
P O BOX 1034
FRUITLAND, NM 87416-1034

BROWN NADINE R
20 ROAD 6401
KIRTLAND, NM 87417

CARLSTON PETER AND MAGGIE
13 ROAD 6193 NBU 32
KIRTLAND, NM 87417

Neighbor List Within 100 Feet

CARPENTER WALTER R AND CATHERINE I TRUST
2821 ERIN AVE
NAMPA, ID 83686-8547

CHRISTIANSON DAVID AND MELISSA J
9 ROAD 6193
KIRTLAND, NM 87417-0000

CURTIS COLAINE
13339 W JACOBSON DR
LITCHFRIELD PARK, AZ 85340

DAN VERNON AND LILLIE
BOX 2004
KIRTLAND, NM 87417-2004

DAWSON CHAD A
17 ROAD 6207
KIRTLAND, NM 87417-0000

DELANEY WELDON V JR AND LOLITA
2305 E 14TH ST
FARMINGTON, NM 87401

DIAMOND D CONSTRUCTION CO INC
KIRTLAND 6406 LLC
PO BOX 764
WATERFLOW, NM 87421

DIAMOND D CONSTRUCTION CO INC
BEGAY VIDA A
PO BOX 3206
INDIAN WELLS, AZ 86031

DIAMOND D CONSTRUCTION CO INC
YAZZIE JAMES J AND ROBERTA L
P O BOX 1841
KIRTLAND, NM 87417

DIAMOND D CONSTRUCTION CO INC
SHORTY LINDA
40 ROAD 6406
KIRTLAND, NM 87417-0000

Neighbor List Within 100 Feet

DIAMOND D CONSTRUCTION CO INC
LOGG LYLE AND MELLISA
PO BOX 3301
KIRTLAND, NM 87417

DIAMOND D CONSTRUCTION CO INC
BOYD YOUNZER AND PEGGY
26 ROAD 6406
KIRTLAND, NM 87417-0000

DIAMOND D CONSTRUCTION CO INC
DANCE JAMES A AND SAM VINA A
PO BOX 6791
FARMINGTON, NM 87499-6791

DUNCAN BRIAN
22 ROAD 6401
KIRTLAND, NM 87417

EATON BESSIE M ET AL
11 RD 6193 NBU #32
KIRTLAND, NM 87417

F AND D HOLDINGS LLC
5810 CEDARWOOD DR
FARMINGTON, NM 87402

FAIRCHILD JAMES W AND LILA
P O BOX 1761
FARMINGTON, NM 87499

FINCH AMBER N
16 ROAD 6401
KIRTLAND, NM 87417-0000

FRANK WANDA ET AL
30 ROAD 6406
KIRTLAND, NM 87417-9436

GARLINGTON BILLY L III
41 ROAD 6200
KIRTLAND, NM 87417-0000

Neighbor List Within 100 Feet

GILMORE FRED AND WILMA A C/O 1
HWY 64 TRUCK AND AUTO SALVAGE LLC
PO BOX 1687
FARMINGTON, NM 87499

GLADDEN VERNON R AND ROSEMIL V
PO BOX 2827
KIRTLAND, NM 87417

HARRIS RAYMOND KEITH ET AL
1201 FAIRWAY DR
GALLUP, NM 87301

HENDRIX BRADLEY D AND CATHY B TRUST
P.O BOX 814
KIRTLAND, NM 87417-0000

HOBBS DEVIN M AND MIRANDA K
1 ROAD 6207
KIRTLAND, NM 87417-9742

HOLMES ARCHIE W AND MARGARET C CLEMENTS
P O BOX 359
KIRTLAND, NM 87417-0359

HORSLEY PATRICK B AND TRACY V
9 ROAD 6207
KIRTLAND, NM 87417-0000

HORTON ROGER W JR AND DEBORAH L
36 ROAD 6401
KIRTLAND, NM 87417

HOSKAY ETHEL
26 ROAD 6041
KIRTLAND, NM 87417

INGRAHAM RONALD
3480 LA PLATA HWY
FARMINGTON, NM 87401

INVESTORS TRUST LC C/O MATEKOVIC
GONZALES MARIA
31 ROAD 6195
KIRTLAND, NM 87417

Neighbor List Within 100 Feet

JACKSON KENDRICK P
10 ROAD 6212
KIRTLAND, NM 87417-0000

JAKE EVANGELINE
P O BOX 285
WATERFLOW, NM 87421-0285

JARAMILLO STEVEN D AND DANA S
5 ROAD 6207 NBU 30
KIRTLAND, NM 87417-9742

KIDDIE TODD B
7 ROAD 6193
KIRTLAND, NM 87417-9328

KRIEG ERIC W AND FREDRICA
3 ROAD 6207
KIRTLAND, NM 87417-0000

LEE CALVIN
P O BOX 313
FRUITLAND, NM 87416-0313

KUECKS GEORGE J TRUSTEES
LEWIS FRANK
19 ROAD 6193
KIRTLAND, NM 87417-9329

LIGHT KIMBERLY CANDACE
EMERSON LUCINDA ALBERTA
8 ROAD 6212
KIRTLAND, NM 87417-9791

LINK THOMAS G
4346 US 64
KIRTLAND, NM 87417

LUCERO OSCAR M ET AL
P O BOX 1412
FRUITLAND, NM 87416-1412

Neighbor List Within 100 Feet

MAESTAS ELIJAH E
PO BOX 2025
KIRTLAND, NM 87417

MAHON SCOTT TRUSTEES
12 RD 5151
BLOOMFIELD, NM 87413-9700

MOORE LEONARD BRYAN TRUST
204 W 20TH ST
FARMINGTON, NM 87401

PTQ ENTERPRISES LLC
10 ROAD 6185
KIRTLAND, NM 87417

RAMIREZ ALFREDO Y AND MARIA A
1015 GLADE LN SP 1
FARMINGTON, NM 87401

REBELES TED AND DANIELLE
14 ROAD 6212
KIRTLAND, NM 87417

RENFRO CALLIE P
RENDON REBECCA GINA
2 ROAD 6212
KIRTLAND, NM 87417

RODRIGUEZ IGNACIO ARROYO
P O BOX 1384
KIRTLAND, NM 87417

SERRANO JIMMIE D AND SHARON K TRUST
PO BOX 1361
FLORA VISTA, NM 874151361

SEYFERT DENNIS R
45 RD 6200 NBU31
KIRTLAND, NM 87417

SHERMAN ERNIE AND HAZEL
24 ROAD 6401 NBU-33
KIRTLAND, NM 87417

Neighbor List Within 100 Feet

SHORTY MICHAEL AND SHERRI A
21 RD 6195
KIRTLAND, NM 87417-9332

SINGLETON PATRICIA B
2809 LA NAPA ST
FARMINGTON, NM 87401-3728

SINGLETON SHERMANN SAMALA TRUST
2001 E MAIN
FARMINGTON, NM 87401-7713

SMALLCANYON ALBERTA
13 ROAD 6207 NBU 30-B
KIRTLAND, NM 87417

SMILEY HARRY AND EDNA
10 ROAD 6401
KIRTLAND, NM 87417-9549

STANFORD JOHN DUKE JR AND KATHERINE W
28 ROAD 6401
KIRTLAND, NM 87417

STERLING PRODUCTION & DEVELOPMENT LTD CO
KIRTLAND SAND & GRAVEL LLC
32 ROAD 6210
KIRTLAND, NM 87417

STEVENSON CALVIN AND LENA
P O BOX 504
FRUITLAND, NM 87416-0504

TAPAHA JOHN DAVID AND ROSIE
4 ROAD 6209 NBU-31
KIRTLAND, NM 87417-9745

THOMPSON LANGSTON LANCE AND QUISHANA L
32 ROAD 6401
KIRTLAND, NM 87417-0000

TORREZ RICO D
61 ROAD 6409
KIRTLAND, NM 87417

Neighbor List Within 100 Feet

TSO ROBERT J AND LAPRINCESS D
7 ROAD 6206
KIRTLAND, NM 87417

VAN ARSDALE GERALD L AND MARY L
43 ROAD 6200 NBU 31
KIRTLAND, NM 87417

WHITE GARRICK AND CAMILLE A
34 ROAD 6401
KIRTLAND, NM 87417-0000

WILLIS ALICE E
5 ROAD 6193
KIRTLAND, NM 87417-0000

WILLIS BOBBY L AND CARRIE S
PO BOX 377
KIRTLAND, NM 87417

YAZZIE GILBERT ET AL
PO BOX 191
KIRTLAND, NM 87417

YAZZIE LEANDER
PO BOX 3106
KIRTLAND, NM 87417

YAZZIE MELVIN AND DORIS
P O BOX 1254
KIRTLAND, NM 87417-1254

YOUNG AMOS
PO BOX 3042
KIRTLAND , NM 87417

NOTICE

Elam Construction announces its application to the New Mexico Environment Department for a new air quality permit for the construction of an aggregate rock crushing and screening plant, aggregate wash plant, and hot mix asphalt plant. The expected date of application submittal to the Air Quality Bureau is December 22, 2017.

The exact location for the proposed facility known as, Kirtland Sand & Gravel will be 32 Road 6210 Kirtland, NM, 87417. The approximate location of this facility is 1.4 miles east of the intersection of Highway 64 and County Road 6500 in the town of Kirtland in San Juan County.

The proposed construction consists of 500 tons per hour (TPH) aggregate rock crushing and screening plant, 500 TPH aggregate wash plant, and 400 TPH hot mix asphalt plant.

The estimated maximum quantities of any regulated air contaminants will be as follows in pound per hour (pph) and tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:

Pollutant:	**Pounds per hour**	**Tons per year**
Total Suspended Particulates (TSP)	93.5 pph	63.1 tpy
PM_{10}	38.1 pph	26.0 tpy
$PM_{2.5}$	14.4 pph	9.8 tpy
Sulfur Dioxide (SO_2)	24.5 pph	14.6 tpy
Nitrogen Oxides (NO_x)	100.8 pph	184.4 tpy
Carbon Monoxide (CO)	66.6 pph	56.0 tpy
Volatile Organic Compounds (VOC)	22.5 pph	15.9 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	4.3 pph	2.1 tpy
Toxic Air Pollutant (TAP)	4.9 pph	2.5 tpy
Green House Gas Emissions as Total CO_2e	n/a	16,644 tpy

The standard operating schedule of the facility will be from 7 a.m. to 5 p.m. 7 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be from 24 hours per day in the summer months, from 4 a.m. to 10 p.m. in the spring months, from 4 a.m. to 8 p.m. in the fall months, from 6 a.m. to 5 p.m. in the winter months, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Elam Construction, 556 Struthers Avenue, Grand Junction, CO, 81501.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Attención

Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

General Posting of Notices – Certification

I, Daniel Flack, the undersigned, certify that on December 19, 2017**,** posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the Town of Kirtland of San Juan County, State of New Mexico on the following dates:

1. Facility entrance, December 19, 2017
2. Lower Valley Water Users Association, 4286 US 64 Kirtland, December 19, 2017
3. Town of Kirtland Town Hall, 47 Road 6500 Kirtland, December 19, 201
4. US Post Office, 4211 US 64, Kirtland, December 19, 2017

Signed this 19 day of December, 2017,

Daniel T Flack

Signature

12-19-17

Date

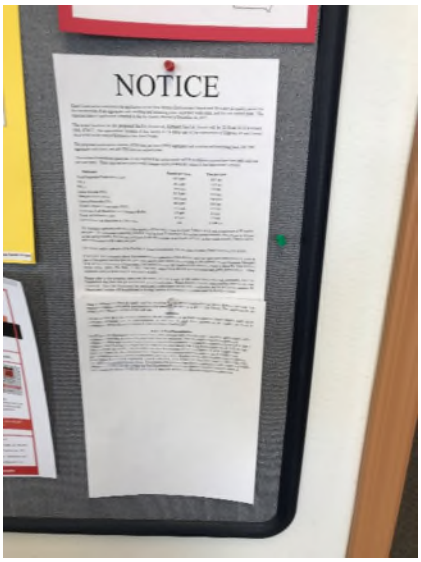
Daniel Flack

Printed Name

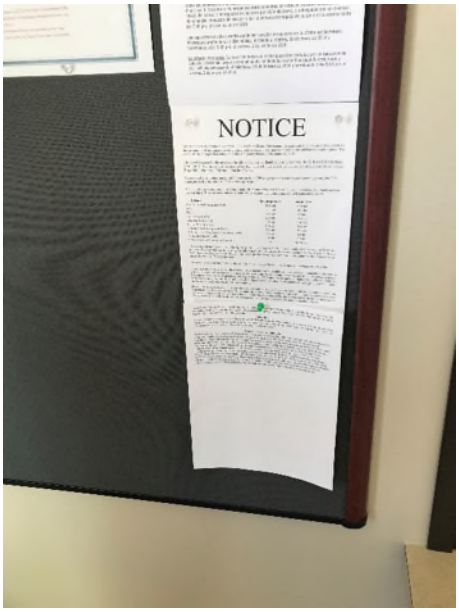
Engineer for Elam Construction

Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

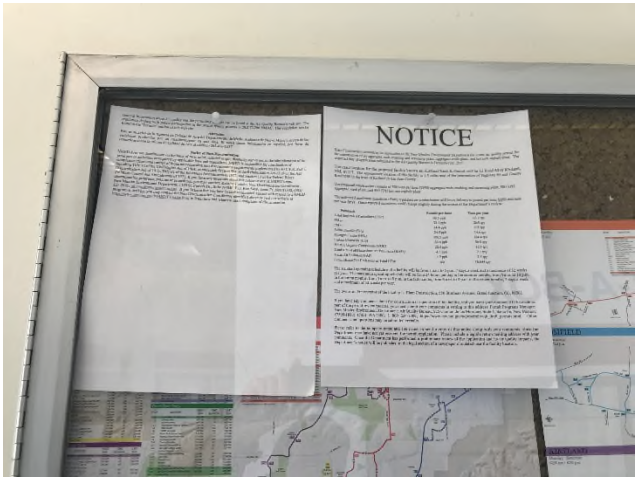
Site



Lower Valley Water Users



Town Hall



US Post Office

December 22, 2017

Dianne Smylie
City of Farmington City Clerk
800 Municipal Drive
Farmington, NM 87401

Dear Ms. Dianne Smylie

Elam Construction announces its application to the New Mexico Environment Department for a new air quality permit for the construction of an aggregate rock crushing and screening plant, aggregate wash plant, and hot mix asphalt plant. The expected date of application submittal to the Air Quality Bureau is December 22, 2017.

The exact location for the proposed facility known as, Kirtland Sand & Gravel will be 32 Road 6210 Kirtland, NM, 87417. The approximate location of this facility is 1.4 miles east of the intersection of Highway 64 and County Road 6500 in the town of Kirtland in San Juan County.

The proposed construction consists of a 500 tons per hour (TPH) aggregate rock crushing and screening plant, 500 TPH aggregate wash plant, and 400 TPH hot mix asphalt plant.

The estimated maximum quantities of any regulated air contaminants will be as follows in pound per hour (pph) and tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	93.5 pph	63.1 tpy
PM_{10}	38.1 pph	26.0 tpy
$PM_{2.5}$	14.4 pph	9.8 tpy
Sulfur Dioxide (SO_2)	24.5 pph	14.6 tpy
Nitrogen Oxides (NO_x)	100.8 pph	184.4 tpy
Carbon Monoxide (CO)	66.6 pph	56.0 tpy
Volatile Organic Compounds (VOC)	22.5 pph	15.9 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	4.3 pph	2.1 tpy
Toxic Air Pollutant (TAP)	4.9 pph	2.5 tpy
Green House Gas Emissions as Total CO_2e	n/a	16,644 tpy

The standard operating schedule of the facility will be from 7 a.m. to 5 p.m. 7 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be from 24 hours per day in the summer months, from 4 a.m. to 10 p.m. in the spring months, from 4 a.m. to 8 p.m. in the fall months, from 6 a.m. to 5 p.m. in the winter months, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Elam Construction, 556 Struthers Avenue, Grand Junction, CO, 81501.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Attención

Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non- discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

Sincerely,

Elam Construction
556 Struthers Avenue
Grand Junction, CO, 81501

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee $ 3.35

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ____
- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46

Total Postage and Fees $ 3.81

Postmark Here
ALBUQUERQUE, NM 87110-3801
DEC 27 2017
USPS

7016 0750 0000 3327 5329

Sent To Gwen Warner
Street a Town of Kirtland Town Clerk
City, St P. O. Box 1887
Kirtland, NM 87417-1887

PS Form ... See for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46

Total Postage and Fees $ 3.81

Postmark Here
ALBUQUERQUE, NM 87110-3801
DEC 27 2017
USPS

7016 0750 0000 3327 5329

Sent Dianne Smylie
Stree City of Farmington City Clerk
City, 800 Municipal Drive
Farmington, NM 887401-2663

PS F ...erse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

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- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46

Total Postage and Fees $ 3.81

Postmark Here
DEC 27 2017
USPS

7016 0750 0000 3327 5343

Sent To Chapter President's Office
Street Upper Fruitland Chapter
City, S P. O. Box 1257
Fruitland, NM 87416-1257

PS Form ... se for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee $ 3.35

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ____
- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46

Total Postage and Fees $ 3.81

Postmark Here
ALBUQUERQUE, NM 87110-3801
DEC 27 2017
USPS

7016 0750 0000 3327 5343

Sent Tanya Shelby
Stree San Juan County Clerk
City, 100 S. Oliver Dr., Suite 200
Aztec, NM 87410-2417

PS F ...erse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee $ 3.35

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ____
- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46

Total Postage and Fees $ 3.81

Postmark Here
ALBUQUERQUE, NM 87110-3801
DEC 27 2017
USPS

7016 0750 0000 3327 5367

Sent To Chapter President's Office
Street a Nenahnezad Chapter
City, Sta P. O. Box 438
Fruitland, NM 87416-0438

PS Form ... se for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee $ 3.35

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ____
- ☐ Return Receipt (electronic) $ ____
- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46

Total Postage and Fees $ 3.81

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7016 0750 0000 3327 5367

Sent To Chapter President's Office
Street an Tse Daa K'ann (Hogback) Chapter
City, Stat P. O. Box 1288
Shiprock, NM 87420-1288

PS Form ... se for Instructions

7016 0750 0000 3327 5381

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- ☐ Adult Signature Restricted Delivery $ ____

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Street and: San Juan Chapter
City, State: P. O. Box 1636
Fruitland, NM 87416-1636

PS Form ... for Instructions

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- ☐ Adult Signature Restricted Delivery $ ____

Postage
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USPS

Sent To: Office of the President & Vice President
Street and: Navajo Nation
City, State: P. O. Box 7440
Window Rock, AZ 86515-7440

PS Form 3... ...r Instructions

7017 1070 0000 0605 5696

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- ☐ Adult Signature Restricted Delivery $

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Total Postage and Fees $ 3.81

ALBUQUERQUE, NM 87110-3307 JAN 2 2017 Postmark Here USPS

Sent To DANNY ANDREWS
Street an 47 ROAD 6200
KIRTLAND, NM 87417-9737
City, Stai

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 1070 0000 0605 5702

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- ☐ Adult Signature Restricted Delivery $

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Total Postage and Fees $ 3.81

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Sent To RENAE LEE BEGAY
Street an 34 ROAD 6406
KIRTLAND, NM 87417-9436
City, Stai

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7017 1070 0000 0605 5719

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ALBUQUERQUE, NM 87110-3307 Postmark JAN Here 2017

Sent To MICHAEL D. BEKIS
Street and 6 ROAD 6401
KIRTLAND, NM 87417-9549
City, State,

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7017 1070 0000 0605 5726

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Sent To RENA BEYALE
Street and Apt. P O BOX 3114
SEAL BEACH, CA 90740-2114
City, State, ZIP

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ALBUQUERQUE, NM 87110-3307 JAN 2 2017 Postmark Here USPS

Sent To THOMAS G. AND JOY K. BIEL
Street and Apt. ATTN: DORIS TRUJILLO
PO BOX 415
City, State, ZIP CANJILON, NM 87515-0415

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Sent To TOMMY BOLACK TRUST
Street and Apt. No. 3901 BLOOMFIELD HWY
City, State, ZIP+4® FARMINGTON, NM 87401-2831

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JAN - 2 2017

Sent To BARBARA LYNN BRADSHAW
Street and Apt. No. 2128 SUMMIT DR
City, State, ZIP+4® FARMINGTON, NM 87401-3428

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Sent To GWEN BOWN
Street and Apt. No., PO BOX 1111
City, State, ZIP+4® KIRTLAND, NM 87417-1111

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Sent To LARRY BROWN
Street and Apt. No., o P O BOX 1034
City, State, ZIP+4® FRUITLAND, NM 87416-1034

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Sent To NADINE R. BROWN
Street and Apt. No., or F 20 ROAD 6401
City, State, ZIP+4® KIRTLAND, NM 87417-0000

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Sent To PETER AND MAGGIE CARLSTON
Street and Apt. No., c 13 ROAD 6193 NBU 32
City, State, ZIP+4® KIRTLAND, NM 87417-9328

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Sent To WALTER R. AND CATHERINE I. CARPENTER TRUST
Street and Apt. No., or F 2821 ERIN AVE
City, State, ZIP+4® NAMPA, ID 83686-8547

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Sent To: DAVID AND MELISSA J. CHRISTIANSON
Street and Apt. No., or: 9 ROAD 6193
City, State, ZIP+4®: KIRTLAND, NM 87417-9328

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Sent To: COLAINE CURTIS
Street and Apt. No., or: 13339 W JACOBSON DR
City, State, ZIP+4®: LITCHFRIELD PARK, AZ 85340-5398

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Sent To: VERNON AND LILLIE DAN
Street and Apt. No., BOX 2004
City, State, ZIP+4®: KIRTLAND, NM 87417-2004

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Sent To: CHAD A. DAWSON
Street and Apt.: 17 ROAD 6207
City, State, ZIP: KIRTLAND, NM 87417-9743

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Sent To: WELDON V., JR. AND LILITA DELANEY
Street and Apt. No., o: 2305 E 14TH ST
City, State, ZIP+4®: FARMINGTON, NM 87401-7514

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Sent To: DIAMOND D CONSTRUCTION CO. INC.
Street and Apt. No., o: KIRTLAND 6406 LLC
PO BOX 764
City, State, ZIP+4®: WATERFLOW, NM 87421-0764

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Sent To DIAMOND D CONSTRUCTION CO. INC.
Street and Apt. No., or VIDA A. BEGAY
PO BOX 3206
City, State, ZIP+4® INDIAN WELLS, AZ 86031-3206

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Sent To DIAMOND D CONSTRUCTION CO. INC.
JAMES J. AND ROBERTA L. YAZZIE
Street and Apt. No., o P O BOX 1841
City, State, ZIP+4® KIRTLAND, NM 87417-1841

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Sent To DIAMOND D CONSTRUCTION CO. INC.
LINDA SHORTY
Street and Apt. No., or 40 ROAD 6406
City, State, ZIP+4® KIRTLAND, NM 87417-9436

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

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Total Postage and Fees $ 3.81

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Sent To DIAMOND D CONSTRUCTION CO. INC.
LYLE AND MELLISA LOGG
Street and Apt. No., PO BOX 3301
City, State, ZIP+4® KIRTLAND, NM 87417-3301

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- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46
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Sent To DIAMOND D CONSTRUCTION CO. INC.
YOUNZER AND PEGGY BOYD
Street and Apt. No., 26 ROAD 6406
City, State, ZIP+4® KIRTLAND, NM 87417-9436

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 1070 0000 0605 5924

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- ☐ Adult Signature Required $ ____
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Sent To DIAMOND D CONSTRUCTION CO. INC.
JAMES A. AND SAM VINA A. DANCE
Street and Apt. N PO BOX 6791
City, State, ZIP+ FARMINGTON, NM 87499-6791

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
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Sent To BRIAN DUNCAN
Street and Apt. 1 22 ROAD 6401
City, State, ZIP+ KIRTLAND, NM 87417-9549

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
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Postage
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Total Postage and Fees
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Sent To BESSIE M. EATON ET AL.
Street and Apt 11 RD 6193 NBU #32
City, State, Zi KIRTLAND, NM 87417-9328

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 1070 0000 0605 5955

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
$ .46

Total Postage and Fees
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Sent To F AND D HOLDINGS, LLC
Street and Apt. Ni 5810 CEDARWOOD DR
City, State, ZIP+4 FARMINGTON, NM 87402-4910

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 1070 0000 0605 5962

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Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage
$ .46

Total Postage and Fees
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Sent To JAMES W. AND LILA FAIRCHILD
Street and Apt. No., P O BOX 1761
City, State, ZIP+4® FARMINGTON, NM 87499-1761

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7017 1070 0000 0605 5979

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Sent To AMBER N. FINCH
Street and Apt. No., 16 ROAD 6401
City, State, ZIP+4® KIRTLAND, NM 87417-9549

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- ☐ Adult Signature Restricted Delivery $ ____

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Sent To WANDA FRANK ET AL.
Street and Apt. N 30 ROAD 6406
City, State, ZIP+ KIRTLAND, NM 87417-9436

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Sent To: BILLY L. GARLINGTON III
Street and Apt. No.: 41 ROAD 6200
City, State, ZIP+4®: KIRTLAND, NM 87417-9737

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Sent To: FRED AND WILMA A. GILMORE
Street and Apt. No.: C/O 1 HWY 64 TRUCK AND AUTO SALVAGE, LLC
City, State, ZIP+4®: PO BOX 1687 FARMINGTON, NM 87499-1687

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Sent To: VERNON R. AND ROSEMIL V. GLADDEN
Street and Apt. No.: PO BOX 2827
City, State, ZIP+4: KIRTLAND, NM 87417-2817

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Sent To: RAYMOND KEITH HARRIS ET AL.
Street and Apt. No.: 1201 FAIRWAY DR
City, State, ZIP+4: GALLUP, NM 87301-4951

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Sent To: BRADLEY D. AND CATHY B. HENDRIX TRUST
Street and Apt. No.: P.O BOX 814
City, State, ZIP+4: KIRTLAND, NM 87417-0814

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- ☐ Adult Signature Required $ ____
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Postage $ .46
Total Postage and Fees $ 3.81

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Sent To: DEVIN M. AND MIRANDA K. HOBBS
Street and Apt. No.: 1 ROAD 6207
City, State, ZIP+4: KIRTLAND, NM 87417-9742

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Sent To: ARCHIE W. AND MARGARET C. CLEMENTS HOLMES
Street and Apt. No.: P O BOX 359
City, State, ZIP+4: KIRTLAND, NM 87417-0359

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- ☐ Adult Signature Required $ ____
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Sent To: PATRICK B. AND TRACY V. HORSLEY
Street and Apt. No.: 9 ROAD 6207
City, State, ZIP+4: KIRTLAND, NM 87417-9742

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Sent To: ROGER W. JR. AND DEBORAH L. HORTON
Street and Apt. No., or: 36 ROAD 6401
City, State, ZIP+4®: KIRTLAND, NM 87417-9550

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Sent To: ETHEL HOSKAY
Street and Apt. No., or: 26 ROAD 6401
City, State, ZIP+4®: KIRTLAND, NM 87417-9549

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Sent To: RONALD INGRAHAM
Street and Apt. No.,: 3480 LA PLATA HWY
City, State, ZIP+4®: FARMINGTON, NM 87401-1887

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- ☐ Adult Signature Required $ ____
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Sent To: INVESTORS TRUST LC C/O MATEKOVIC ATTN: MARIA GONZALES
Street and Apt. No., o: 31 ROAD 6195
City, State, ZIP+4®: KIRTLAND, NM 87417-9332

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Sent To KENDRICK P. JACKSON
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City, State, ZIP+4® KIRTLAND, NM 87417-9791

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- ☐ Adult Signature Required $
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Sent To EVANGELINE JAKE
Street and Apt. N P O BOX 285
City, State, ZIP+ WATERFLOW, NM 87421-0285

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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Sent To STEVEN D. AND DANA S. JARAMILLO
Street and Apt. I 5 ROAD 6207 NBU 30
City, State, ZIP+ KIRTLAND, NM 87417-9742

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- ☐ Adult Signature Required $
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Sent To TODD B. KIDDIE
Street and Apt. No., 7 ROAD 6193
City, State, ZIP+4® KIRTLAND, NM 87417-9328

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Sent To ERICKW. AND FREDRICA KRIEG
Street and Apt. No., 3 ROAD 6207
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- ☐ Adult Signature Restricted Delivery $

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Sent To GEORGE J. KUECKS TRUSTEES
ATTN: FRANK LEWIS
Street and Apt. N 19 ROAD 6193
City, State, ZIP+4 KIRTLAND, NM 87417-9329

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Sent To: CALVIN LEE
Street and Apt. No.: P O BOX 313
City, State, ZIP+4®: FRUITLAND, NM 87416-0313

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Sent To: KIMBERLY CANDACE LIGHT
LUCINDA ALBERTA EMERSON
Street and Apt. No.: 8 ROAD 6212
City, State, ZIP+4: KIRTLAND, NM 87417-9791

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Sent To: THOMAS G. LINK
Street and Apt. No.: 4346 US 64
City, State, ZIP+4®: KIRTLAND, NM 87417-9421

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- ☐ Adult Signature Restricted Delivery $ ____

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Sent To: OSCAR M. LUCERO ET AL.
Street and Apt. No.: P O BOX 1412
City, State, ZIP+4®: FRUITLAND, NM 87416-1412

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

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Sent To: ELIJAH E. MAESTAS
Street and Apt. No.: PO BOX 2025
City, State, ZIP+4: KIRTLAND, NM 87417-2025

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- ☐ Adult Signature Required $ ____
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Sent To: SCOTT MAHON TRUSTEES
Street and Apt. No.: 12 RD 5151
City, State, ZIP+4®: BLOOMFIELD, NM 87413-9700

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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Sent To LEONARD BRYAN MOORE TRUST
Street and Apt. 204 W 20TH ST
City, State, ZIP+4 FARMINGTON, NM 87401-3443

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .46
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Sent To PTQ ENTERPRISES, LLC
Street and Apt. No. 10 ROAD 6185
City, State, ZIP+4® KIRTLAND, NM 87417-9323

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .46
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Sent To ALFREDO Y. AND MARIA A. RAMIREZ
Street and Apt. No 1015 GLADE LN TRLR 1
City, State, ZIP+4 FARMINGTON, NM 87401-3848

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .46
Total Postage and Fees $ 3.81

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Sent To TED AND DANIELLE REBELES
Street and Apt. 14 ROAD 6212
City, State, ZIP+4 KIRTLAND, NM 87417-9791

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ .46
Total Postage and Fees $ 3.81

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Sent To CALLIE P. RENFRO
REBECCA GINA RENDON
Street and Apt. 2 ROAD 6212
City, State, ZIP+4 KIRTLAND, NM 87417-9791

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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Sent To IGNACIO ARROYO RODRIGUEZ
Street and Apt. No., P O BOX 1384
City, State, ZIP+4® KIRTLAND, NM 87417-1384

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46
Total Postage and Fees $ 3.81

Postmark Here

Sent To JIMMIE D. AND SHARON K. SERRANO TRUST
Street and Ap ATTN: JAMES W. AND LILA FAIRCHILD
City, State, Zi PO BOX 1361
FLORA VISTA, NM 87415-1361

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- ☐ Return Receipt (electronic) $ ____
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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46
Total Postage and Fees $ 3.81

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Sent To DENNIS R. SEYFERT
Street and Apt. 45 ROAD 6200 NBU 31
City, State, ZIP+ KIRTLAND, NM 87417-9737

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46
Total Postage and Fees $ 3.81

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Sent To ERNIE AND HAZEL SHERMAN
Street and Apt. No 24 ROAD 6401 NBU 33
City, State, ZIP+4 KIRTLAND, NM 87417-9549

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Postage $ .46
Total Postage and Fees $ 3.81

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Sent To MICHAEL AND SHERRI A. SHORTY
Street and Apt. N 21 ROAD 6195
City, State, ZIP+4 KIRTLAND, NM 87417-9332

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- ☐ Adult Signature Required $ ____
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Postage $ .46
Total Postage and Fees $ 3.81

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Sent To PATRICIA B. SINGLETON
Street and Apt. 2809 LA NAPA ST
City, State, ZIP+ FARMINGTON, NM 87401-3728

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- ☐ Adult Signature Required $ ____
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Postage $ .46
Total Postage and Fees $ 3.81

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Sent To SHERMANN SAMALA SINGLETON TRUST
Street and Apt. N 2001 E MAIN
City, State, ZIP+ FARMINGTON, NM 87401-7713

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- ☐ Adult Signature Required $ ____
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Postage $ .46
Total Postage and Fees $ 3.81

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Sent To ALBERTA SMALLCANYON
Street and Apt. No., 13 ROAD 6207 NBU 30-B
City, State, ZIP+4 KIRTLAND, NM 87417-9743

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Postage $ .46
Total Postage and Fees $ 3.81

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Sent To HARRY AND EDNA SMILEY
Street and Apt. No 10 ROAD 6401
City, State, ZIP+4 KIRTLAND, NM 87417-9549

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- ☐ Certified Mail Restricted Delivery $ ____
- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46
Total Postage and Fees $ 3.81

Postmark Here

Sent To JOHN DUKE, JR. AND KATHERINE W. STANFORD
Street and Apt 28 ROAD 6401
City, State, Zi KIRTLAND, NM 87417-9550

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- ☐ Adult Signature Restricted Delivery $ ____

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Sent To STERLING PRODUCTION & DEVELOPMENT LTD. CO. KIRTLAND SAND & GRAVEL LLC
Street and A 32 ROAD 6210
City, State, Z KIRTLAND, NM 87417-9509

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- ☐ Adult Signature Restricted Delivery $ ____

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Total Postage and Fees $ 3.81

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Sent To CALVIN AND LENA STEVENSON
Street and Ap P O BOX 504
City, State, Zi FRUITLAND, NM 87416-0504

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- ☐ Adult Signature Required $ ____
- ☐ Adult Signature Restricted Delivery $ ____

Postage $ .46
Total Postage and Fees $ 3.81

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Sent To JOHN DAVID AND ROSIE TAPAHA
Street and Apt. 4 ROAD 6209 NBU-31
City, State, ZIP+ KIRTLAND, NM 87417-9745

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Postage
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Total Postage and Fees
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Sent To: LAGNSTON LANCE AND QUISHANA L. THOMPSON
Street and Apt. No.: 32 ROAD 6401
City, State, ZIP+4®: KIRTLAND, NM 87417-9550

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- ☐ Adult Signature Restricted Delivery $ ____

Postage
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Total Postage and Fees
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Sent To: RICO D. TORREZ
Street and Apt. N: 61 ROAD 6409
City, State, ZIP+4: KIRTLAND, NM 87417-9568

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Sent To: ROBERT J. AND LAPRINCESS D. TSO
Street and Apt. No.: 7 ROAD 6206
City, State, ZIP+4®: KIRTLAND, NM 87417-9740

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Sent To: GERALD L. AND MARY L. VAN ARSDALE
Street and Apt. No.,: 43 ROAD 6200 NBU 31
City, State, ZIP+4®: KIRTLAND, NM 87417-9737

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Sent To: GARRICK AND CAMILLE A. WHITE
Street and Apt. No., o: 34 ROAD 6401
City, State, ZIP+4®: KIRTLAND, NM 87417-9550

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- ☐ Adult Signature Required $ ____
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Total Postage and Fees
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Sent To: ALICE E. WILLIS
Street and Apt. Nc: 5 ROAD 6193
City, State, ZIP+4: KIRTLAND, NM 87417-9328

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- ☐ Adult Signature Required $ _____
- ☐ Adult Signature Restricted Delivery $ _____

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BOBBY L. AND CARRIE S. WILLIS
PO BOX 377
KIRTLAND, NM 87417-0377

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- ☐ Adult Signature Required $ _____
- ☐ Adult Signature Restricted Delivery $ _____

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GILBERT YAZZIE ET AL.
PO BOX 191
KIRTLAND, NM 87417-0191

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- ☐ Adult Signature Required $ _____
- ☐ Adult Signature Restricted Delivery $ _____

Postage
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LEANDER YAZZIE
PO BOX 3106
KIRTLAND, NM 87417-3106

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- ☐ Return Receipt (electronic) $ _____
- ☐ Certified Mail Restricted Delivery $ _____
- ☐ Adult Signature Required $ _____
- ☐ Adult Signature Restricted Delivery $ _____

Postage
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Total Postage and Fees
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Street and Apt. No
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MELVIN AND DORIS YAZZIE
P O BOX 1254
KIRTLAND, NM 87417-1254

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- ☐ Adult Signature Required $ _____
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AMOS YOUNG
PO BOX 3042
KIRTLAND , NM 87417-3042

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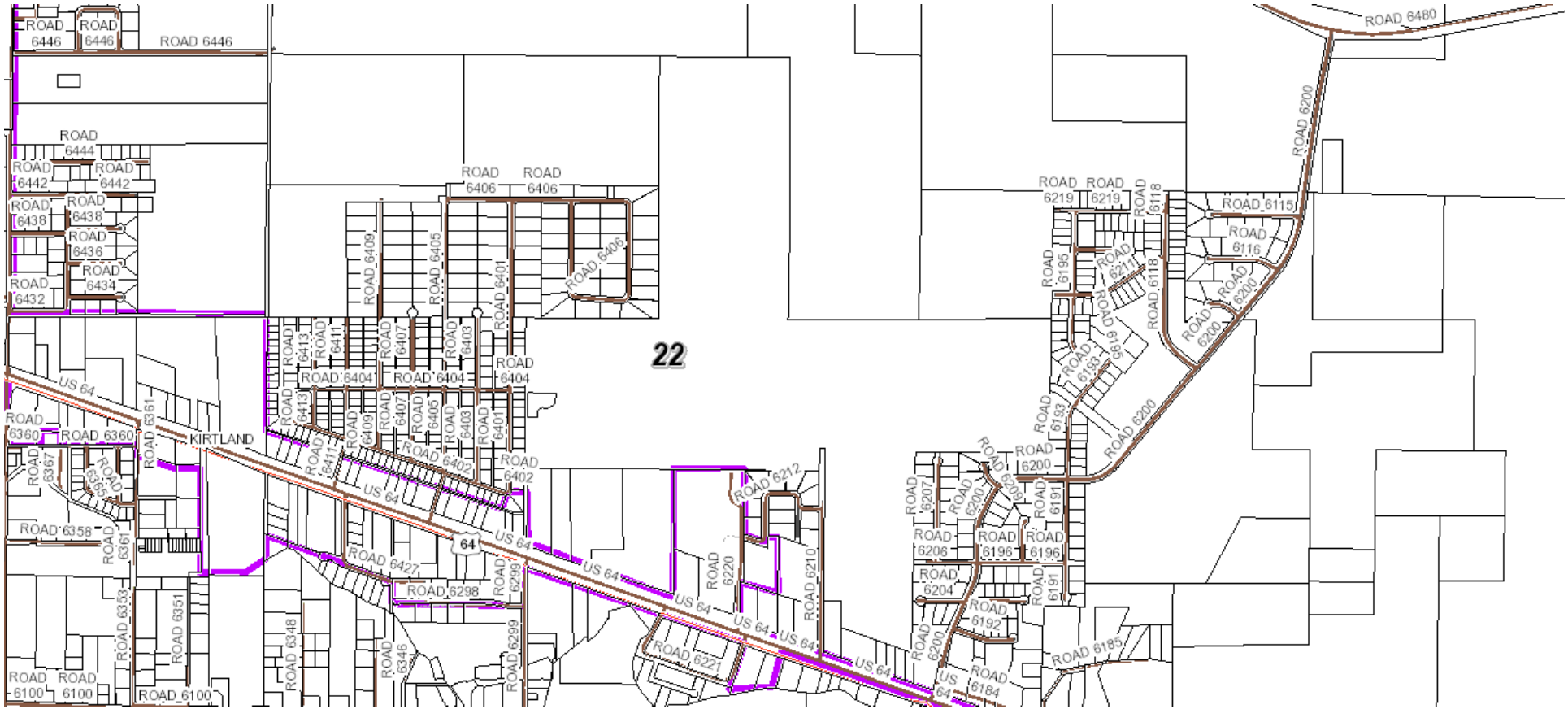
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KIRTLAND
US 64
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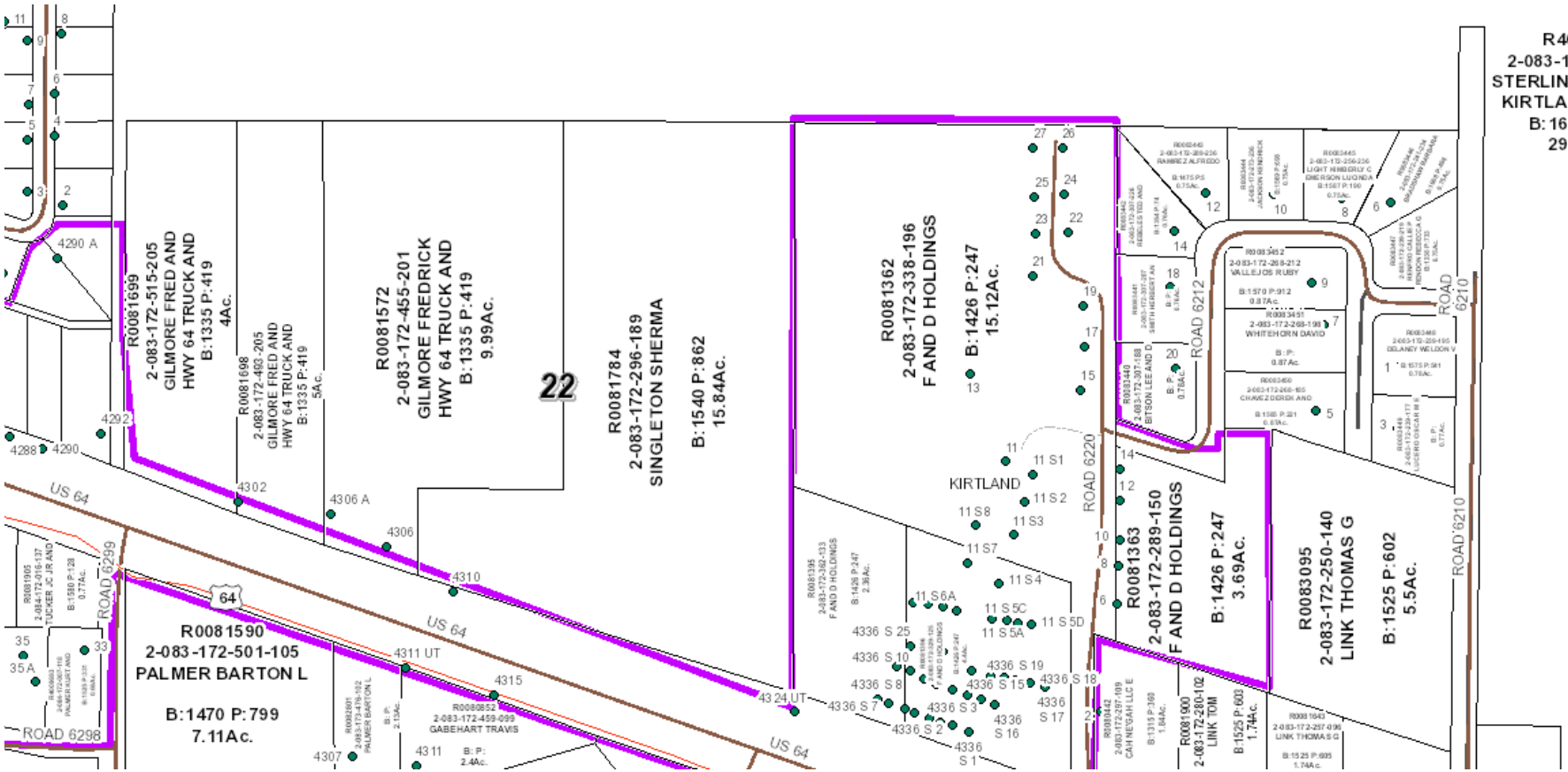
R0081699
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GILMORE FRED AND
HWY 64 TRUCK AND
B:1335 P:419
4Ac.
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GILMORE FRED AND
HWY 64 TRUCK AND
B:1335 P:419
5Ac.
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GILMORE FREDRICK
HWY 64 TRUCK AND
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F AND D HOLDINGS
B:1426 P:247
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F AND D HOLDINGS
B:1426 P:247
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R0083095
2-083-172-250-140
LINK THOMAS G
B:1525 P:602
5.5Ac.
R0081590
2-083-172-501-105
PALMER BARTON L
B:1470 P:799
7.11Ac.
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2-083-172-315-336
STERLING PRODUCT
KIRTLAND SAND &
B:1616 P:538
291.9Ac.
KIRTLAND
US 64
ROAD 6299
ROAD 6298
ROAD 6220
ROAD 6212
ROAD 6210
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4324 UT
4307
4311
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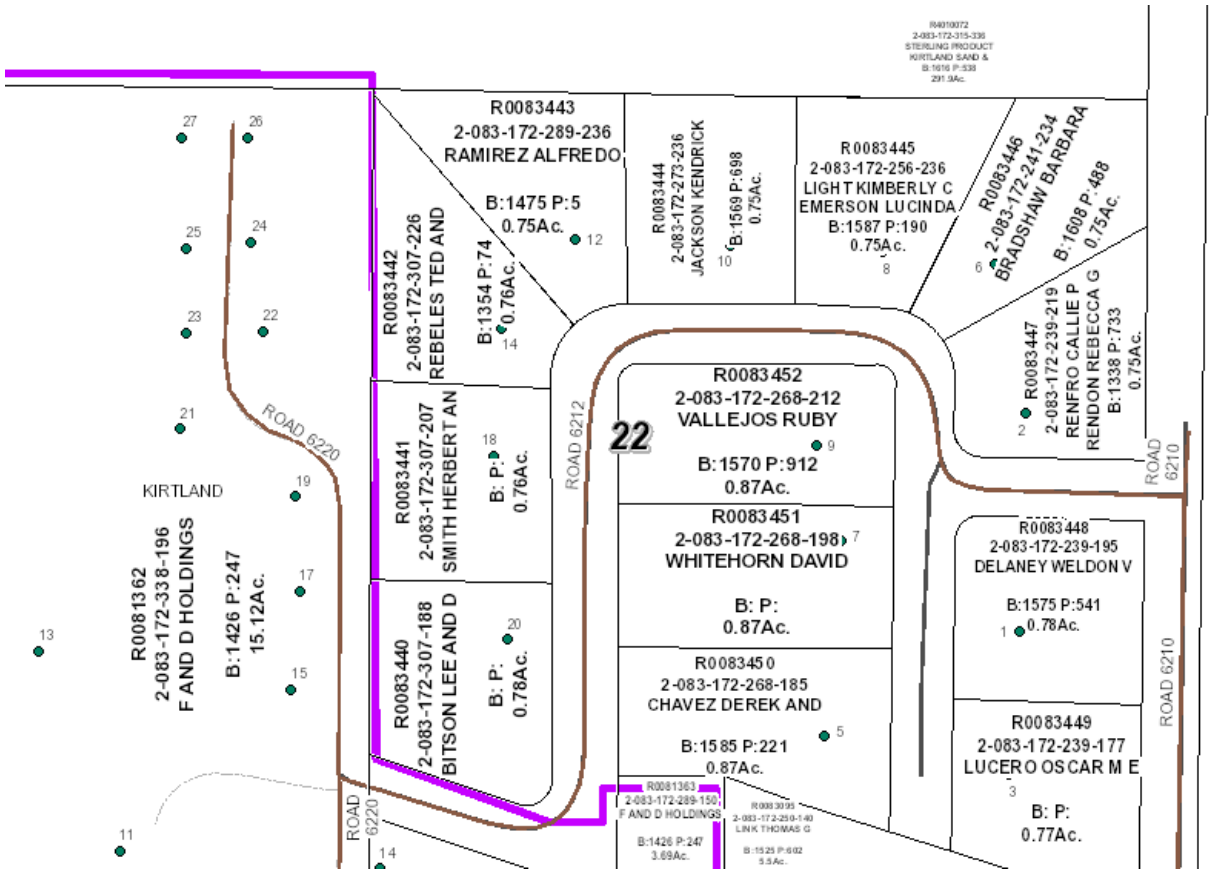

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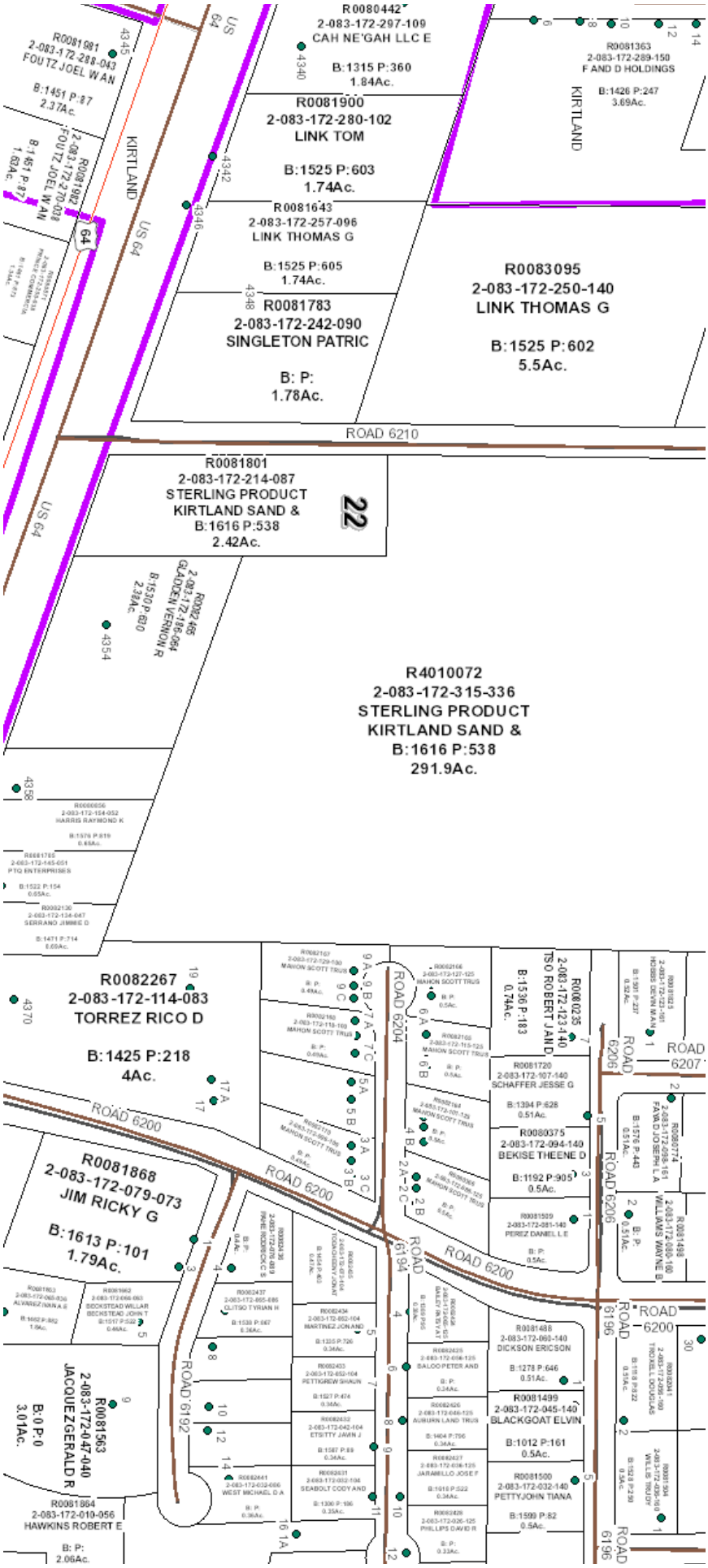
2-083-172-315-336
STERLING PRODUCT
KIRTLAND SAND &
B:1616 P:538
291.9Ac.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F AND D HOLDINGS
B:1426 P:247
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KIRTLAND
R0081981
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FOUTZ JOEL W AN
B:1451 P:87
2.37Ac.
R0081982
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FOUTZ JOEL W AN
B:1451 P:87
1.63Ac.
US 64
R0081900
2-083-172-280-102
LINK TOM
B:1525 P:603
1.74Ac.
R0081643
2-083-172-257-096
LINK THOMAS G
B:1525 P:605
1.74Ac.
R0081783
2-083-172-242-090
SINGLETON PATRIC
B: P:
1.78Ac.
R0083095
2-083-172-250-140
LINK THOMAS G
B:1525 P:602
5.5Ac.
ROAD 6210
R0081801
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STERLING PRODUCT
KIRTLAND SAND &
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2.39Ac.
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STERLING PRODUCT
KIRTLAND SAND &
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ROAD 6204
ROAD 6206
ROAD 6207
ROAD 6194
ROAD 6196
ROAD 6192
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JACQUEZ GERALD R
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HAWKINS ROBERT E
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SCHAFFER JESSE G
B:1394 P:628
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BEKISE THEENE D
B:1192 P:905
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PEREZ DANIEL L E
R0081488
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DICKSON ERICSON
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BLACKGOAT ELVIN
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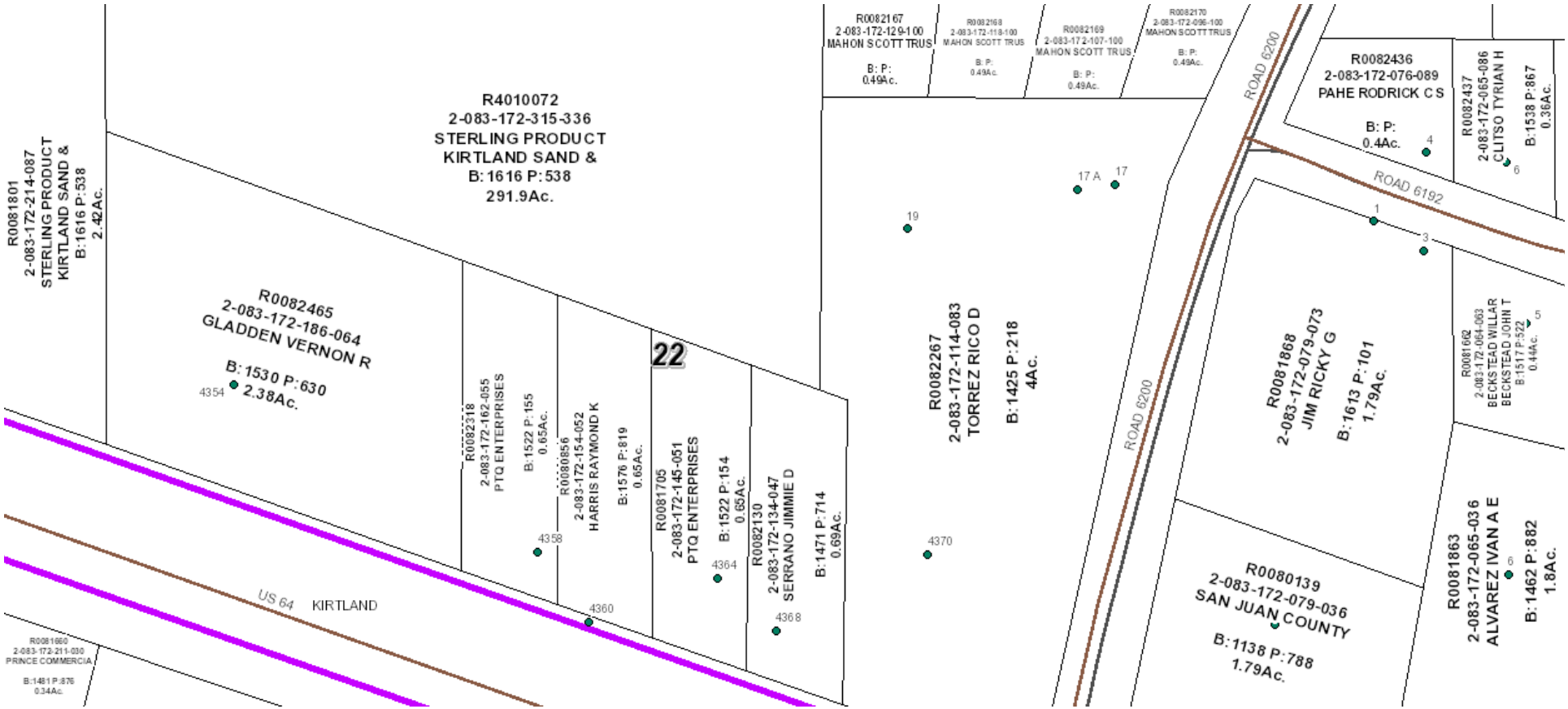
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B:1576 P:819
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B: P:
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BECKSTEAD JOHN T
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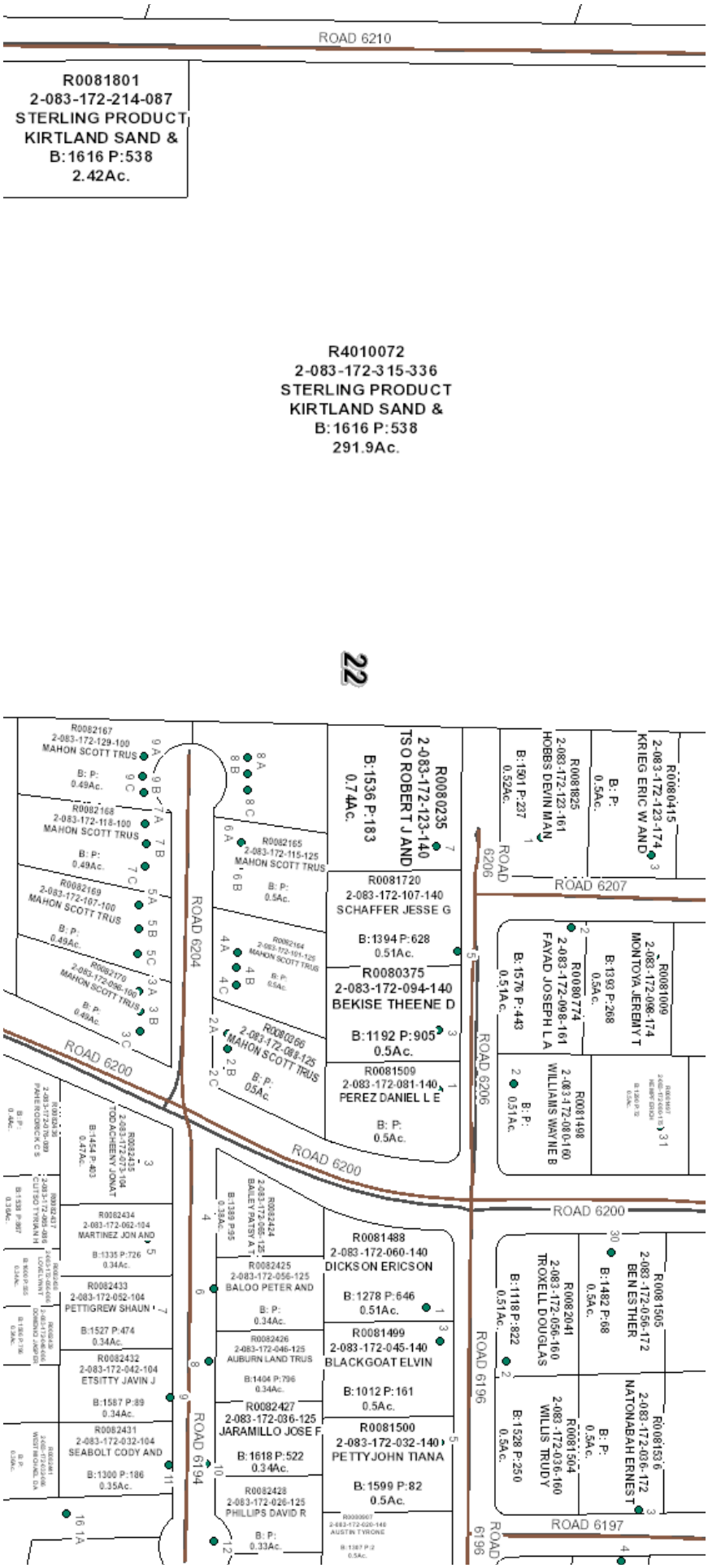
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ROAD 6206
ROAD 6207
ROAD 6200
ROAD 6196
ROAD 6194
ROAD 6197
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SCHAFFER JESSE G
B:1394 P:628
0.51Ac.
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BEKISE THEENE D
B:1192 P:905
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PEREZ DANIEL L E
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HOBBS DEVIN MAN
B:1501 P:237
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KRIEG ERIC W AND
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MONTOYA JEREMY T
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FAYAD JOSEPH L A
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PHILLIPS DAVID R
B: P:
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R0081488
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DICKSON ERICSON
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R0081499
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BLACKGOAT ELVIN
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BEN ESTHER
B:1482 P:68
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TROXELL DOUGLAS
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STERLING PRODUCT
KIRTLAND SAND &
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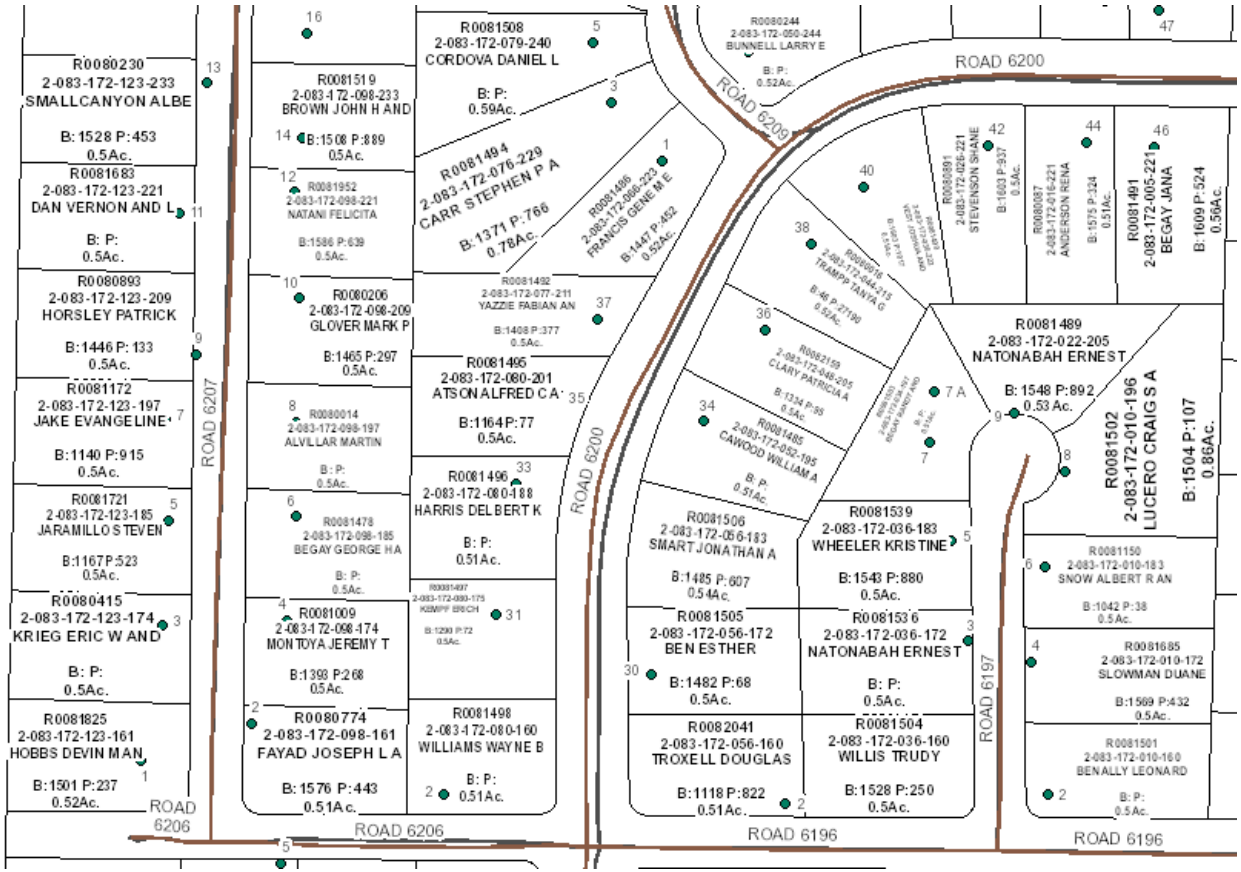
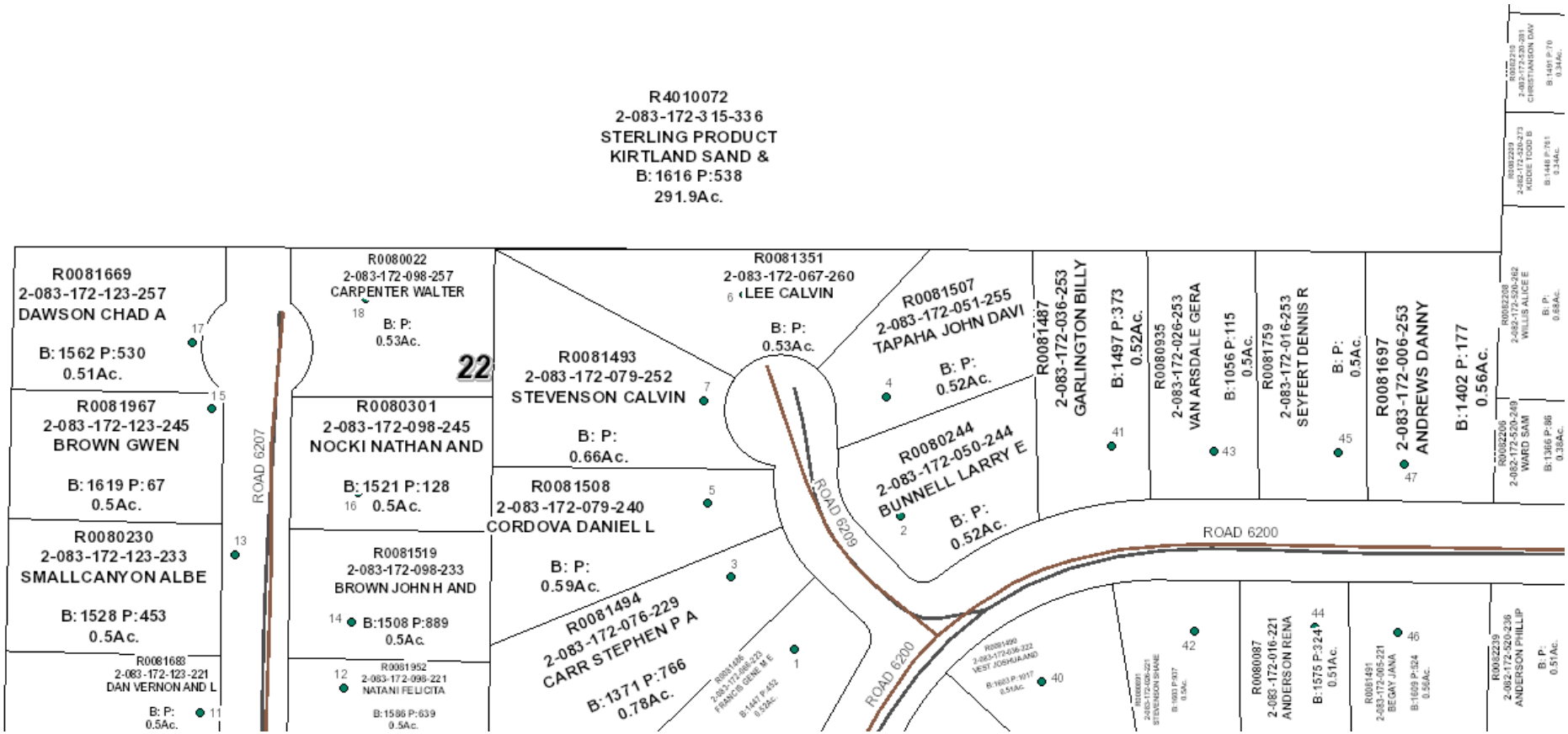
22

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CARR STEPHEN P A
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LEE CALVIN
B: P:
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B: P:
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B: P:
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ROAD 6200
R0081487
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B:1497 P:373
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VAN ARSDALE GERA
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B: P:
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ANDREWS DANNY
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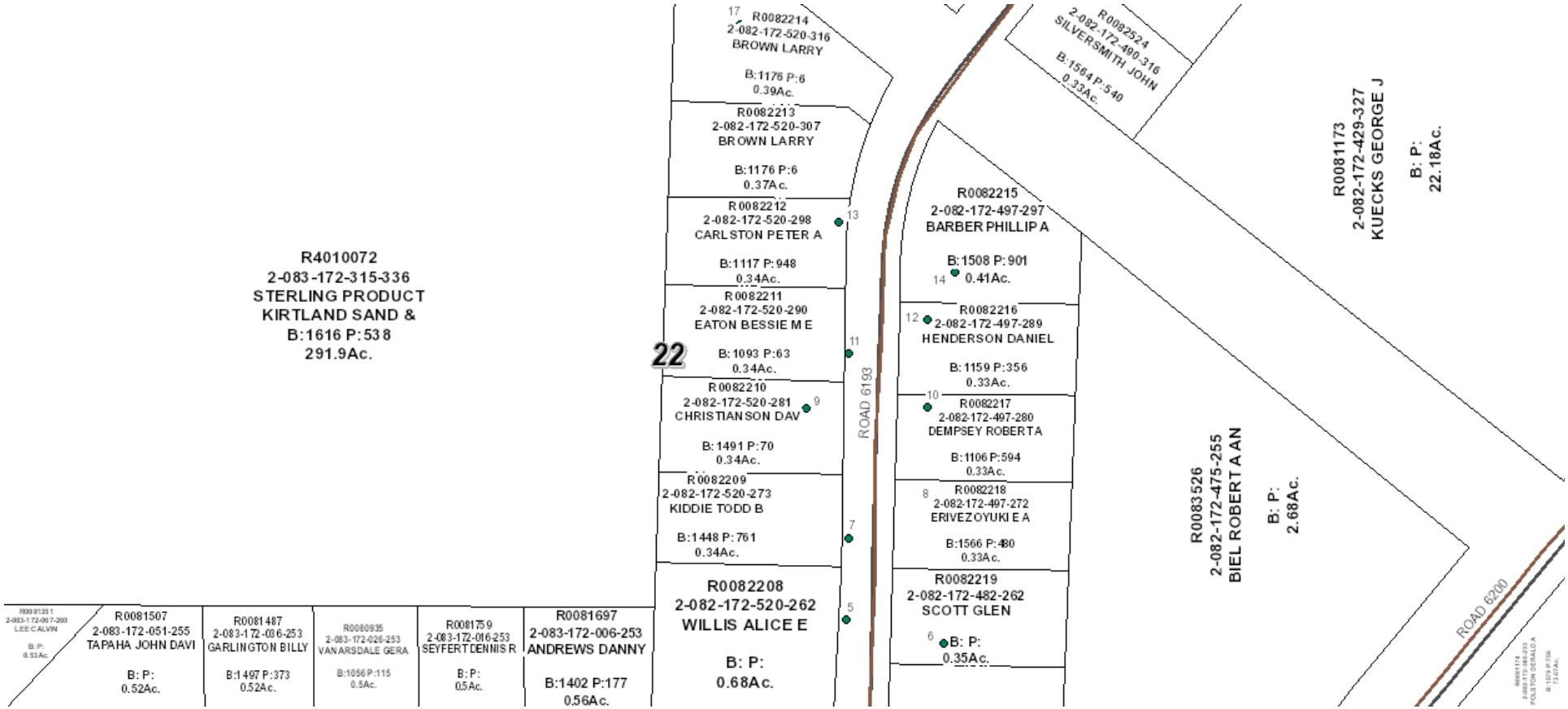
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CHRISTIANSON DAV
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BARBER PHILLIP A
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HENDERSON DANIEL
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DEMPSEY ROBERT A
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ERIVEZOYUKI E A
B:1566 P:480
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SCOTT GLEN
6
B: P:
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BIEL ROBERT A AN
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B: P:
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GARLINGTON BILLY
B:1497 P:373
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VANARSDALE GERA
B:1056 P:115
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SEYFERT DENNIS R
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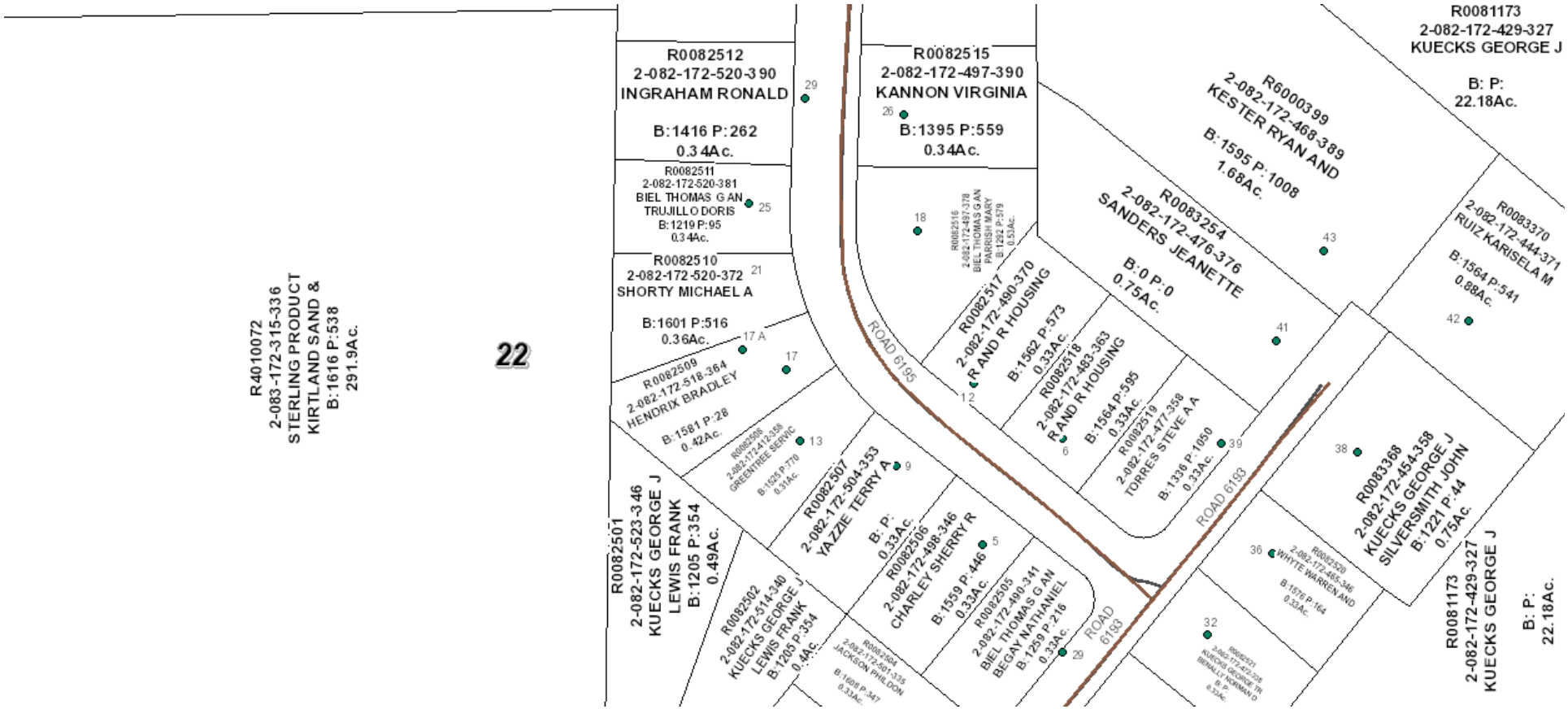
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KANNON VIRGINIA
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BIEL THOMAS G AN
TRUJILLO DORIS
B:1219 P:95
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PARRISH MARY
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KESTER RYAN AND
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RUIZ KARISELA M
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SHORTY MICHAEL A
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B:1601 P:516
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R AND R HOUSING
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HENDRIX BRADLEY
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R AND R HOUSING
B:1564 P:595
0.33Ac.
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R0082519
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TORRES STEVE A A
B:1336 P:1050
0.33Ac.
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ROAD 6193
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GREENTREE SERVIC
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YAZZIE TERRY A
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B:1576 P:164
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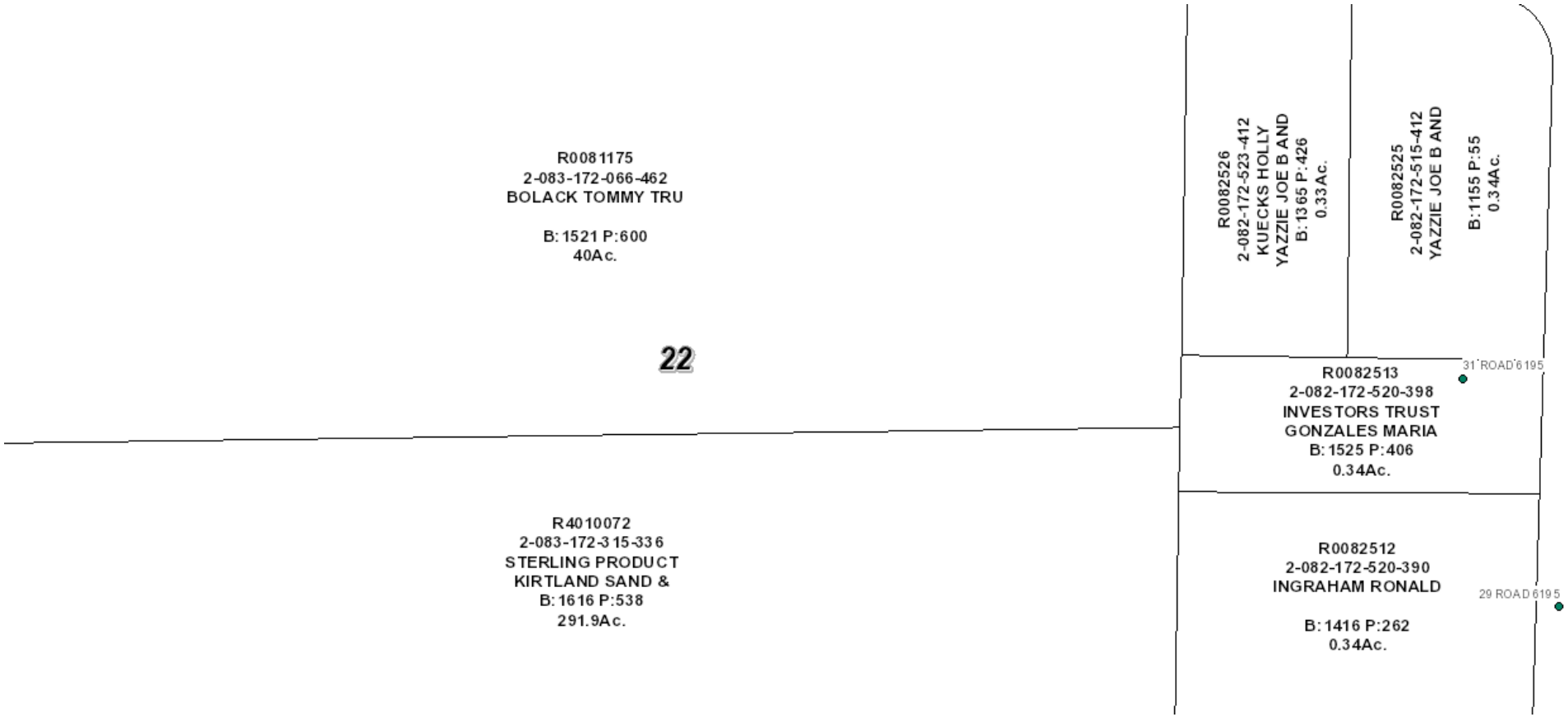
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YAZZIE JOE B AND
B:1365 P:426
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R0082525
2-082-172-515-412
YAZZIE JOE B AND
B:1155 P:55
0.34Ac.
31 ROAD 6195
R0082513
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INVESTORS TRUST
GONZALES MARIA
B:1525 P:406
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STERLING PRODUCT
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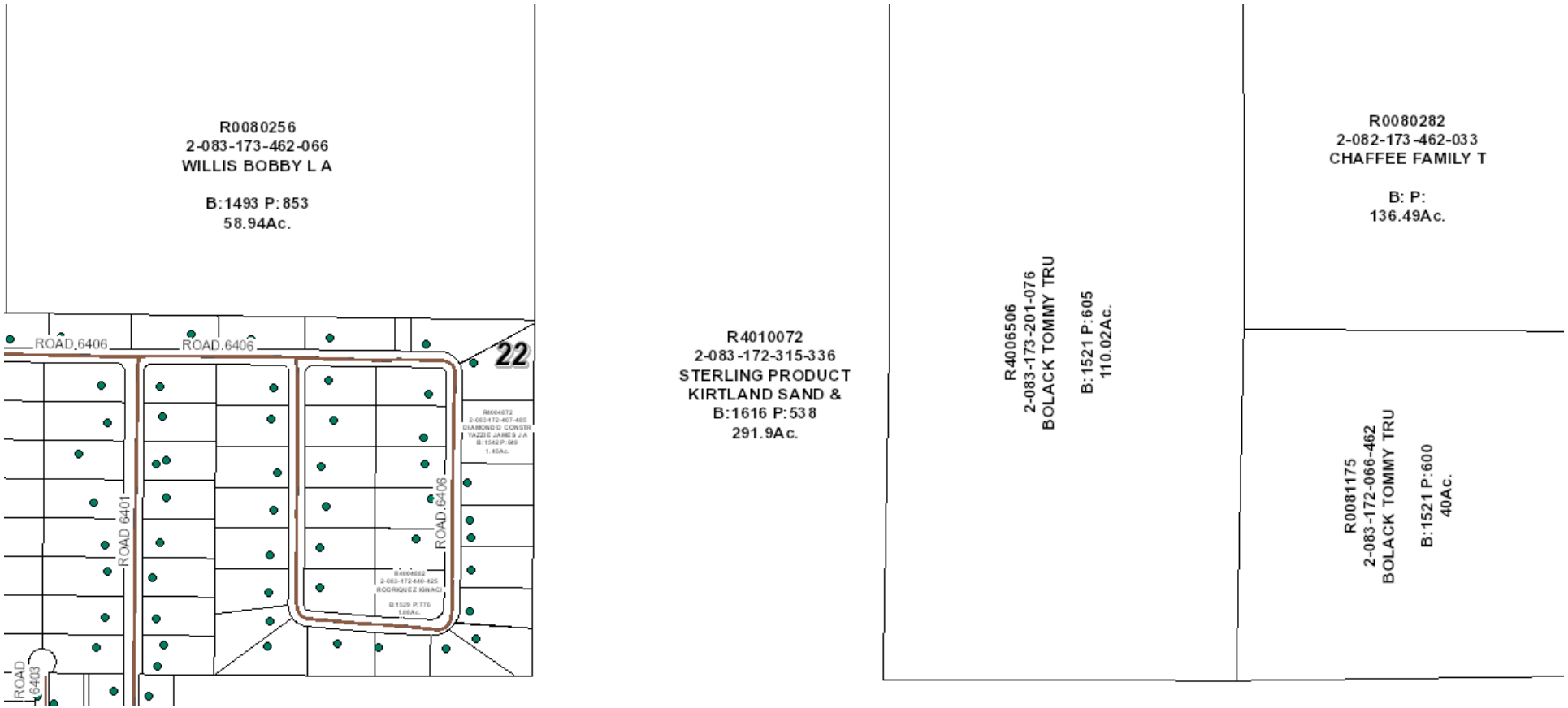
29 ROAD 6195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ROAD 6406
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110.02Ac.
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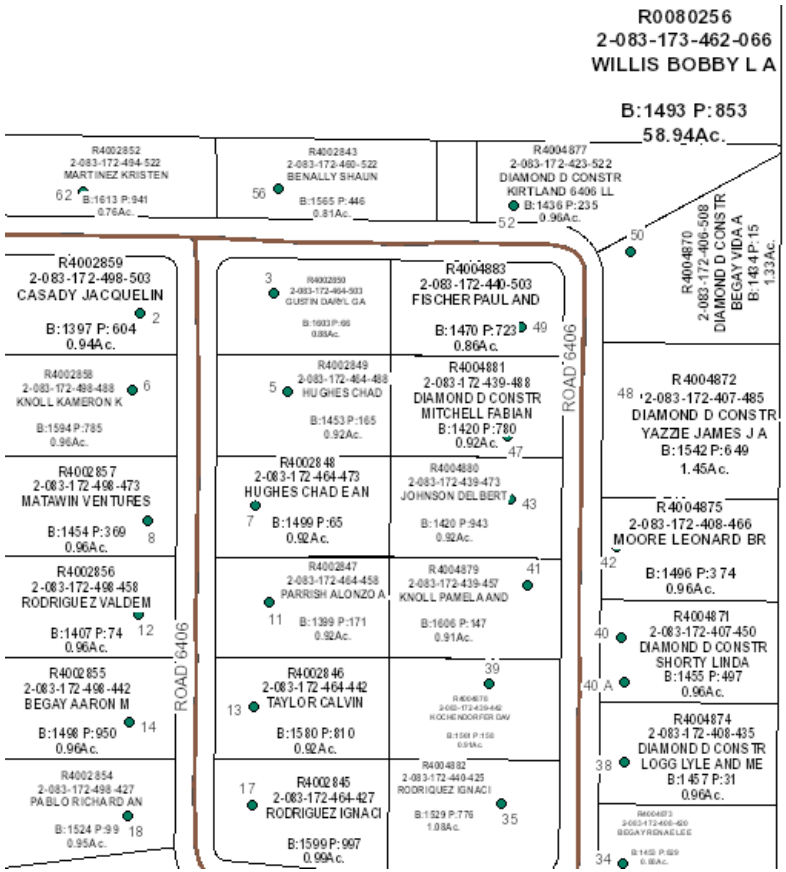

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STERLING PRODUCT
KIRTLAND SAND &
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291.9Ac.

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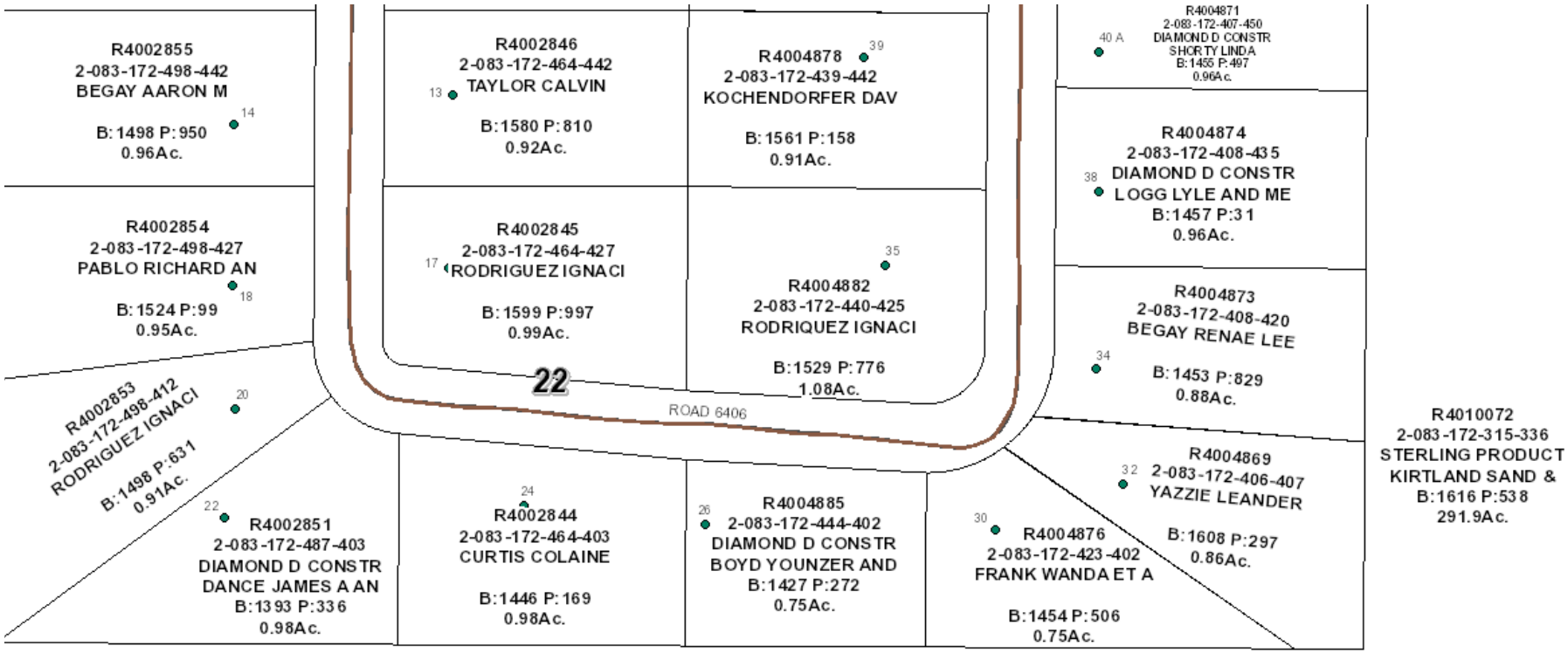
BOLACK TOMMY TRU

B:1521 P:605
110.02Ac.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TAYLOR CALVIN
B:1580 P:810
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R4004878
39
2-083-172-439-442
KOCHENDORFER DAV
B:1561 P:158
0.91Ac.
R4004871
2-083-172-407-450
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DIAMOND D CONSTR
SHORTY LINDA
B:1455 P:497
0.96Ac.
R4004874
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38
DIAMOND D CONSTR
LOGG LYLE AND ME
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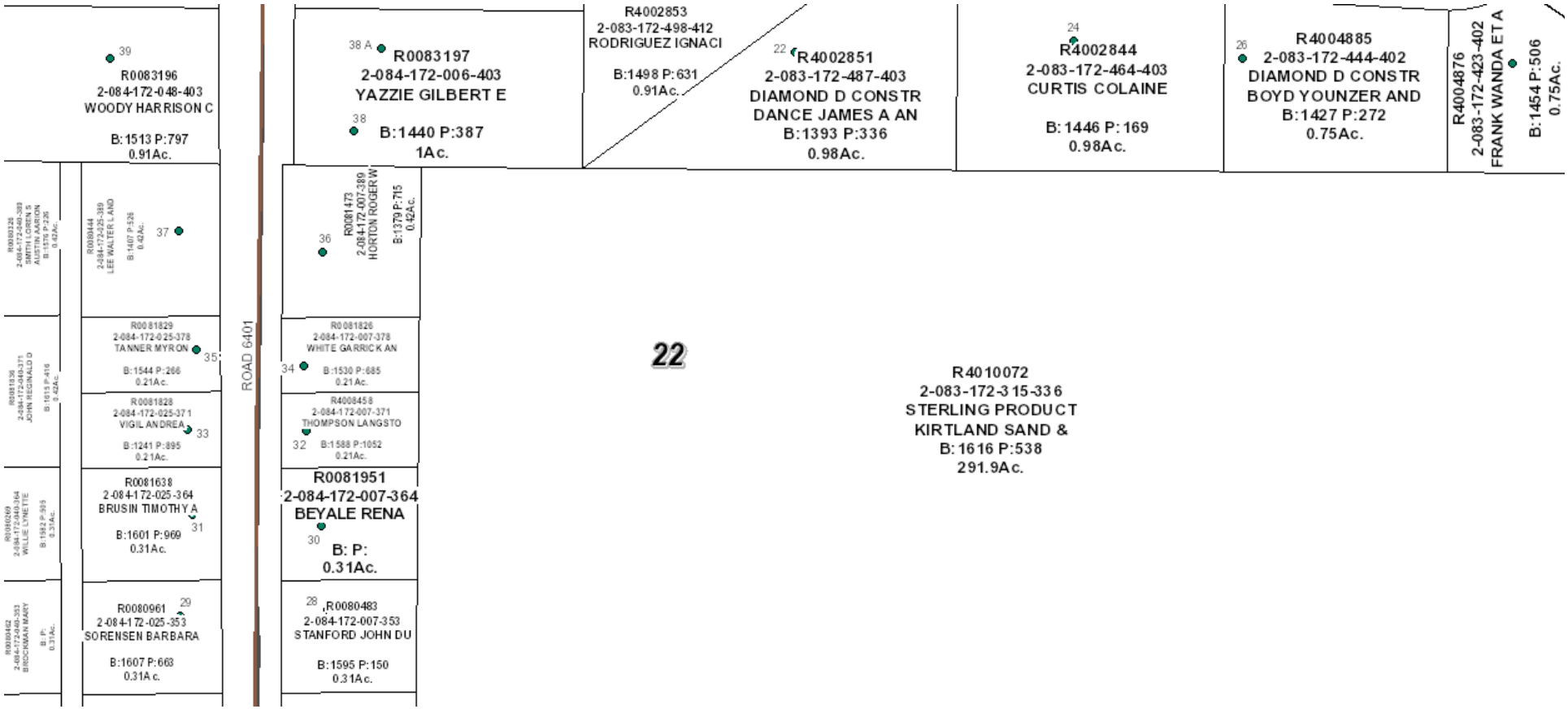
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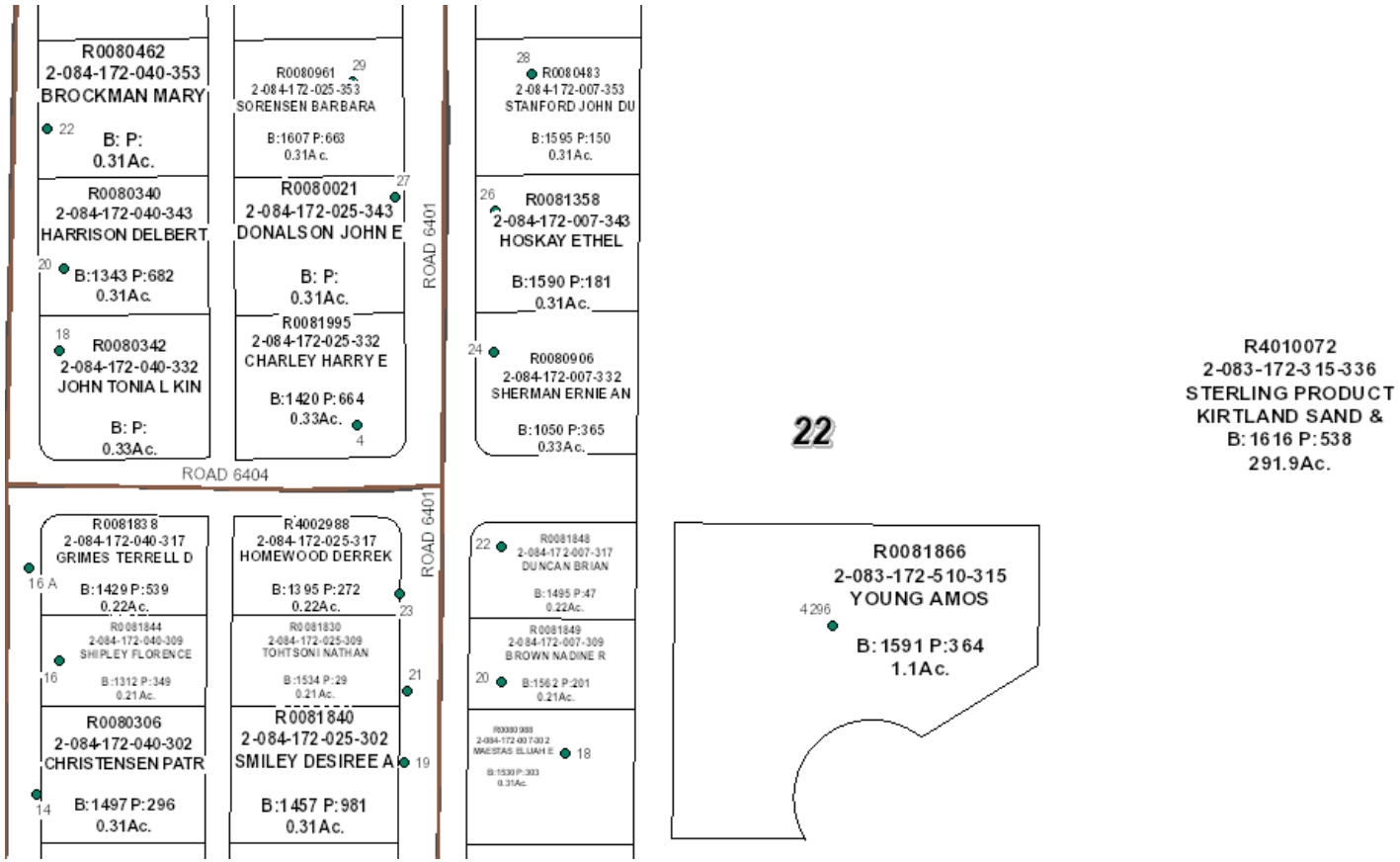
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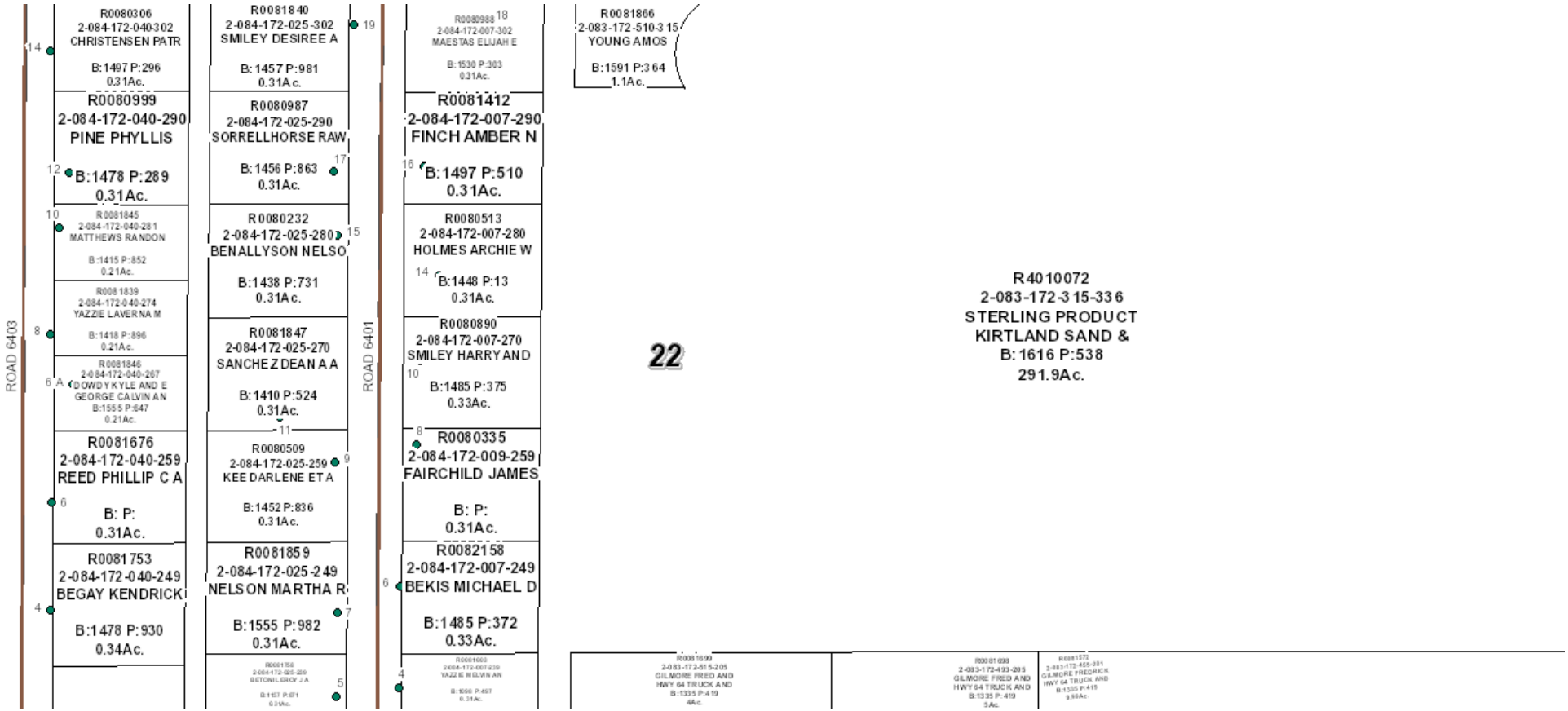
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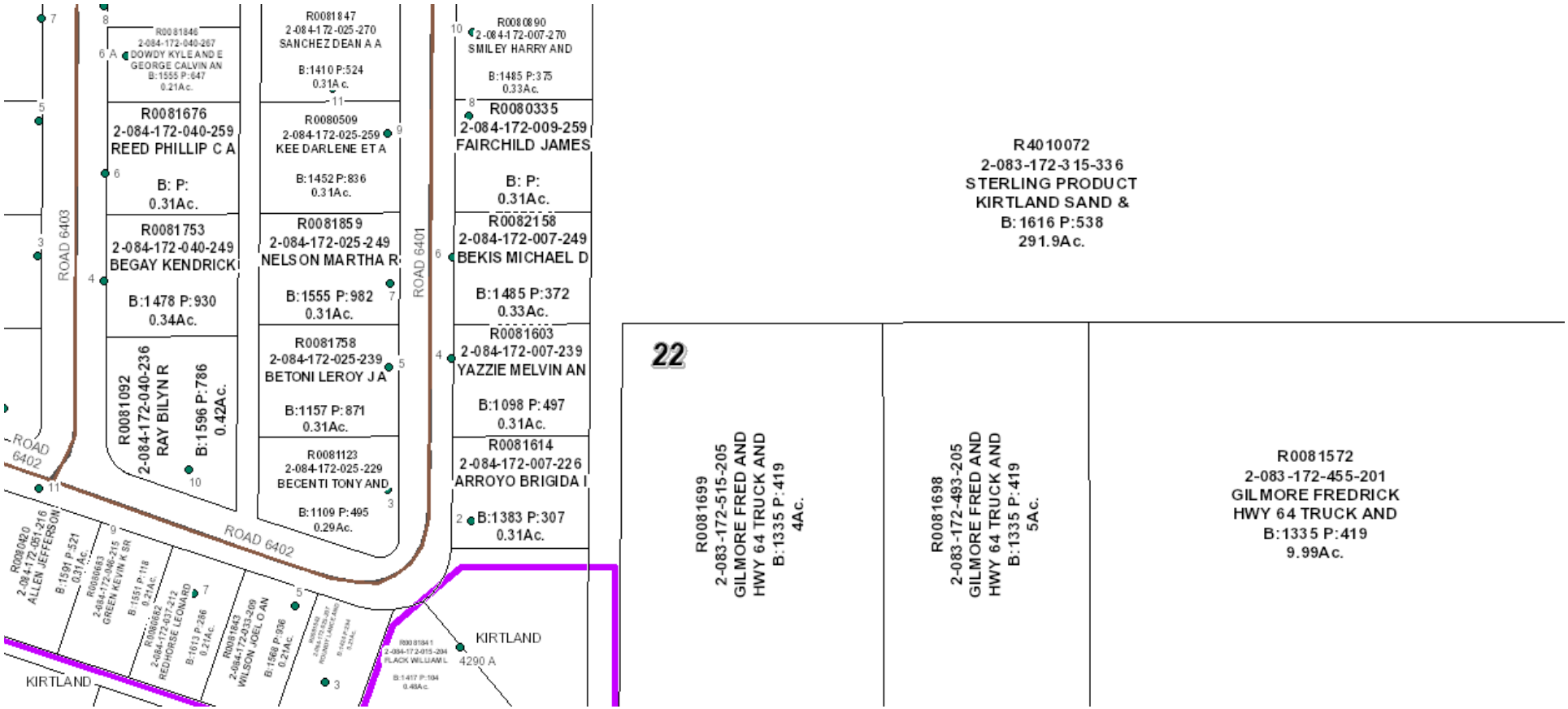
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ROAD 6403
ROAD 6401
ROAD 6402
ROAD 6402
KIRTLAND
4290 A
KIRTLAND

AFFIDAVIT OF PUBLICATION

Ad No. 74616

STATE OF NEW MEXICO
County of San Juan:

SAMMY LOPEZ, being duly sworn says: That He IS the PRESIDENT of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the State of New Mexico for publication and appeared in the Internet at The Daily Times web site on the following day(s):

Friday, December 22, 2017

And the cost of the publication is $289.51

SAMMY LOPEZ appeared before me, whom I know personally to be the person who signed the above document on the 22nd of December, 2017.

OFFICIAL SEAL
MELISSA GONZALEZ
NOTARY PUBLIC
STATE OF NEW MEXICO

My commission expires 12-30-20

[signature of Notary]
Melissa Gonzalez NOTARY PUBLIC

COPY OF PUBLICATION

NOTICE OF AIR QUALITY PERMIT APPLICATION

Elam Construction announces its application to the New Mexico Environment Department for a new air quality permit for the construction of an aggregate rock crushing and screening plant, aggregate wash plant, and hot mix asphalt plant. The expected date of application submittal to the Air Quality Bureau is December 22, 2017.

The exact location for the proposed facility known as, Kirtland Sand & Gravel will be 32 Road 6210 Kirtland, NM, 87417. The approximate location of this facility is 1.4 miles east of the intersection of Highway 64 and County Road 6500 in the town of Kirtland in San Juan County.

The proposed construction consists of 500 tons per hour (TPH) aggregate rock crushing and screening plant, 500 TPH aggregate wash plant, and 400 TPH hot mix asphalt plant.

The estimated maximum quantities of any regulated air contaminants will be as follows in pound per hour (pph) and tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	93.5 pph	63.1 tpy
PM 10	38.1 pph	26.0 tpy
PM 2.5	14.4 pph	9.8 tpy
Sulfur Dioxide (SO_2)	24.5 pph	14.6 tpy
Nitrogen Oxides (NO_x)	100.8 pph	184.4 tpy
Carbon Monoxide (CO)	66.6 pph	56.0 tpy
Volatile Organic Compounds (VOC)	22.5 pph	15.9 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	4.3 pph	2.1 tpy
Toxic Air Pollutant (TAP)	4.9 pph	2.5 tpy
Green House Gas Emissions as Total CO_2e	n/a	16,644 tpy

The standard operating schedule of the facility will be from 7 a.m. to 5 p.m. 7 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be from 24 hours per day in the summer months, from 4 a.m. to 10 p.m. in the spring months, from 4 a.m. to 8 p.m. in the fall months, from 6 a.m. to 5 p.m. in the winter months, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is: Elam Construction, 556 Struthers Avenue, Grand Junction, CO, 81501.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Attención

Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non- discrimination programs, policies or procedures, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

Legal No. 74616 published in The Daily Times on December 22, 2017.

AFFIDAVIT OF PUBLICATION

Ad No. 1227157

STATE OF NEW MEXICO
County of San Juan:

SAMMY LOPEZ, being duly sworn says: That He IS the PRESIDENT of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the State of New Mexico for publication and appeared in the Internet at The Daily Times web site on the following day(s):

Friday, December 22, 2017

And the cost of the publication is $532.38

SAMMY LOPEZ appeared before me, whom I know personally to be the person who signed the above document on the 22nd of December, 2017.

OFFICIAL SEAL
MELISSA GONZALEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My commission expires 12-30-20

[signature of Notary]
Melissa Gonzalez NOTARY PUBLIC

COPY OF PUBLICATION

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Total Suspended Particulates (TSP)	93.5 pph	63.1 tpy
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Total sum of all Hazardous Air Pollutants (HAPs)	4.3 pph	2.1 tpy
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TX-0001227157-01

RADIO ANNOUNCEMENT

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The proposed construction consists of a 500 tons per hour (TPH) aggregate rock crushing and screening plant, 500 TPH aggregate wash plant, and 400 TPH hot mix asphalt plant.

Public notice postings for this permit application can be found at the follow locations:

Elam Kirtland Sand & Gravel Site, 32 Road 6210 Kirtland, NM, 87417
Lower Valley Water Users Association, 4286 US 64, Kirtland, NM
Town of Kirtland Town Hall, 47 Road 6500,Kirtland, NM
US Post Office, 4211 US 64, Kirtland, NM

The owner and/or operator of the Facility is:

Elam Construction
556 Struthers Avenue
Grand Junction, CO, 81501.

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address:

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico; 87505-1816
Telephone Number (505) 476-4300 or 1 800 224-7009

December 28, 2017

KNDN Radio
1515 West Main St.
Farmington, NM 87401

CERTIFIED MAIL

Dear KNDN Radio:

SUBJECT: PSA Request - Proposed Air Quality Construction Permit for Elam Construction's Kirtland Sand & Gravel.

Attached is a copy of a public service announcement regarding a proposed air quality construction permit for Elam Construction's Kirtland Sand & Gravel. This announcement is being submitted by Montrose Air Quality Services, Albuquerque, NM on behalf of Elam Construction.

The announcement request is being made to fulfill the requirements of the New Mexico Environmental Department air quality permitting regulations. Please consider reading the attached announcement as a public service message.

If you have any questions or need additional information, please contact me at (505) 830-9680 ext 6 (voice), (505) 830-9678 (fax) or email at pwade@montrose-env.com. Thank you in advance.

Sincerely,

Paul Wade

Paul Wade
Senior Engineer
Class One Technical Services

Class One Technical Services, Inc.
an affiliate of Montrose Air Quality Services
3500 Comanche Road NE Suite G
Albuquerque, NM 87107-4546

T: 505.830.9680 ext. 6
F: 505.830.9678
Pwade@montrose-env.com
www.montrose-env.com

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KNDN Radio

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1515 West Main St.

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Farmington, NM 87401-3837

PS Form ... for Instructions

Section 10

Written Description of the Routine Operations of the Facility

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A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The Kirtland Sand and Gravel Aggregate Crushing/Screening and Wash Plants, and HMA Plant will be permitted to operate with the following material inputs.

TABLE 10-1: Material Throughputs for Each Plant

Plant	Tons Per Hour
Crushing and Screening Plant	500
Wash Plant	500
HMA Plant	400

The facility will include the main 500 TPH aggregate crushing and screening plant and 500 TPH aggregate wash plant.

The 500 tph aggregate quarry and crushing operations will include an aggregate quarry, feeder, primary jaw crusher, two (2) secondary cone crushers, three (3) 6' x 20' screens, eighteen (18) transfer conveyors, and five (5) stacker conveyors. The plant will be powered by a 1429 horsepower (hp) generator during hours of aggregate processing and a 113 hp standby generator at all other times. Aggregate from the quarry will be transported to the aggregate crushing plant by large rock trucks. Processed aggregate will be transported from the aggregate crushing plant to the HMA plant, aggregate wash plant, and off-site sales. The aggregate crushing plant will limit hourly processing rate to 500 tph and 1,000,000 tons per year (tpy). The main plant generator will be limited to operating 3904 hours per year. The standby generator will be limited to operating 4880 hours per year. A process flow diagram is presented as Figure 4-1.

The 500 tph aggregate wash plant will include a feeder, twin-screw wash plant, six (6) transfer conveyors, and four (4) stacker conveyors. The plant will be powered by a 475 horsepower (hp) generator. Processed aggregate will be transported from the aggregate wash plant to the HMA plant, concrete batch plant, and off-site sales. The aggregate wash plant will limit hourly processing rate to 500 tph and 1,000,000 tons per year (tpy). The main wash plant generator will be limited to operating 4571 hours per year. A process flow diagram is presented as Figure 4-2.

The 400 tph hot mix asphalt plant will include a 5-bin cold aggregate feeder, scalping screen, pug mill, 2- bin RAP feeder , RAP scalping screen, mineral filler silo with baghouse, drum dryer with baghouse, incline conveyor, asphalt silo, asphalt heater, and eight (8) transfer conveyors. The plant will be powered by a 1429 horsepower (hp) generator during hours of asphalt processing and a 158 hp standby generator at all other times. Processed asphalt will be transported from the HMA plant to off-site sales. The HMA plant will limit hourly processing rate to 400 tph and 400,000 tons per year (tpy). The main plant generator will be limited to operating 4800 hours per year. The standby generator will be limited to operating 3960 hours per year. Hot oil asphalt heaters will be permitted to operate 8760 hours per year. A process flow diagram is presented as Figure 4-3.

Section 11
Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

A. Identify the emission sources evaluated in this section (list and describe)**:** Hot Mix Asphalt Plant – SIC Code 2951, Aggregate Crushing and Screening Plant – SIC Code 1442, and Aggregate Wash Plant – SIC Codes 1429, 1442.

B. Apply the 3 criteria for determining a single source:

SIC Code: Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

☐ **Yes** ☒ **No**

Common Ownership or Control: Surrounding or associated sources are under common ownership or control as this source.

☒ **Yes** ☐ **No**

Contiguous or Adjacent: Surrounding or associated sources are contiguous or adjacent with this source.

☒ **Yes** ☐ **No**

C. Make a determination:

☐ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "**YES**" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "**NO**" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.

☒ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe): Hot Mix Asphalt Plant – SIC Code 2951, Aggregate Crushing and Screening Plant – SIC Code 1442, and Aggregate Wash Plant – SIC Codes 1429, 1442. The 2-digit SIC Codes are different for the Hot Mix Asphalt Plant and Aggregate Crushing and Screening Plant plus Aggregate Wash Plant.

Section 12

Section 12.A
PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

A PSD applicability determination for all sources. For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is a "synthetic minor" source

B. **This facility is not one of the listed 20.2.74.501 Table I – PSD Source Categories.**

   a. **NOx: 184.4 TPY**
   b. **CO: 56.0 TPY**
   c. **VOC: 15.9 TPY**
   d. **SOx: 14.6 TPY**
   e. **TSP (PM): 63.1 TPY**
   f. **PM10: 26.0 TPY**
   g. **PM2.5: 9.84 TPY**
   h. **Lead: 0.0035 TPY**
   i. **GHG: 16,644 TPY**

C. Netting is not required for this application.

D. BACT is not required for this application.

E. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered.

   No, this facility is not a major source. The facility consists of aggregate processing plants and a HMA plant. Aggregate processing falls under 2-digit SIC Code Group 14 and HMA plants falls under 2-digit SIC Code Group 29. While aggregate material from aggregate processing plants is used in the HMA plant, since they are operating under different SIC Codes they are separate facilities for major source determination.

Section 13

Determination of State & Federal Air Quality Regulations

This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:
For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply**. **For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:
See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:
If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example,** if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:
For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:
All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: http://cfpub.epa.gov/adi/

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.

Table for STATE REGULATIONS:

STATE REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	20.2.3 NMAC is a SIP approved regulation that limits the maximum allowable concentration of Total Suspended Particulates, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide.
20.2.7 NMAC	Excess Emissions	Yes	Facility	This facility is subject to 20.2.7 NMAC.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	34, 35, 50, 72, 74, 75	Engines and heaters are Stationary Combustion Equipment. Specify units subject to this regulation. The facility stationary combustion equipment are subject to a 20 percent opacity limit.
20.2.70 NMAC	Operating Permits	No	Facility	This facility is not a Title V Operating Permit source. The facility consists of aggregate processing plants and a HMA plant. Aggregate processing falls under 2-digit SIC Code Group 14 and HMA plants falls under 2-digit SIC Code Group 29. While aggregate material from aggregate processing plants is used in the HMA plant, since they are operating under different SIC Codes they are separate facilities for major source determination.
20.2.71 NMAC	Operating Permit Fees	No	Facility	This facility is not a Title V Operating Permit source.
20.2.72 NMAC	Construction Permits	Yes	Facility	Potential emission rate (PER) for the facility is greater than 10 pph or greater than 25 tpy for any pollutant subject to a state or federal ambient air quality standard.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	**NOI:** 20.2.73.200 NMAC applies (requiring a NOI application) **Emissions Inventory Reporting:** 20.2.73.300 NMAC applies.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	Facility	This facility is not a PSD major source.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This facility is subject to 20.2.72 NMAC and is in turn subject to 20.2.75 NMAC.
20.2.77 NMAC	New Source Performance	Yes	Subpart OOO - Crusher, Screens, Conveyors, Subpart IIII -34, 35, 50, 74, 75 Subpart I – 66, 68	This is a stationary source, which is subject to the requirements of 40 CFR Part 60.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	This facility doesn't emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61.

STATE REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	This facility is located in an Attainment Area.
20.2.80 NMAC	Stack Heights	Yes	34, 35, 50, 69, 72, 74, 75	The objective of this Part is to establish requirements for the evaluation of stack heights and other dispersion techniques in permitting decisions. The Department shall give no credit for reductions in emissions due to the length of a source's stack height that exceeds good engineering practice or due to any other dispersion technique. The facility will met all requirements of good engineering practices.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	34, 35, 50, 74, 75	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63.

Table for Applicable FEDERAL REGULATIONS:

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	Subpart OOO - Crusher, Screens, Conveyors, Subpart IIII -34, 35, 50, 74, 75 Subpart I – 66, 68	Subparts OOO, IIII, and I in 40 CFR 60 applies.
NSPS 40 CFR60.40, Subpart I	Subpart I, Performance Standards for **Hot Mix Asphalt Facilities**	Yes	66, 68	The affected facility, that commences construction or modification after June 11, 1973, to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for **Volatile Organic Liquid Storage Vessels** (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced **After** July 23, 1984	No		This facility does not have storage vessels with a capacity greater than or equal to 75 cubic meters (m^3) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984.
NSPS 40 CFR Part 60 Subpart OOO	Standards of Performance for **Nonmetallic Mineral Processing Plants**	Yes	Subpart OOO - Crusher, Screens, Conveyors,	NSPS standards for non-metallic minerals apply to applicable crushers, screens, and conveyors.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	Yes	34, 35, 50, 74, 75	The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE). Units 34, 35, 50, 74, and 75 are potentially applicable to Subpart IIII.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	No stationary source is applicable to any Subpart in 40 CFR 61.
MACT 40 CFR 63, Subpart A	General Provisions	Yes	34, 35, 50, 74, 75	Applies if any other Subpart in 40 CFR 63 applies.

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (**RICE MACT**)	Yes	34, 35, 50, 74, 75	Facilities are subject to this subpart if they own or operate a stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

☐ **Title V Sources** (20.2.70 NMAC)**:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

■ **NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

■ **Title V** (20.2.70 NMAC)**, NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.

Operational Plan to Mitigate Emissions and **Plan of Work Practices**

Startup

Prior to the production of asphalt, the drum mixer dust collector will be operational and functioning correctly per 20.2.11.108.A, 20.2.11.109, and applicable permit conditions.

Prior to loading of mineral filler, the mineral filler silo dust collector will be operational and functioning correctly per 20.2.11.108.A, 20.2.11.109, and applicable permit conditions.

Prior to the production of asphalt, feeder bin exit enclosures or other control measures will be functioning correctly to control fugitive emissions to an opacity limit of 20 percent per EPA Reference Method 9.

Prior to the production of asphalt, water sprays, or other control measures, for the scalping screen and pug mill will be functioning correctly and used as needed, to control fugitive emissions to an opacity limit of 20 percent per EPA Reference Method 9.

Prior to unloading of the drum mixer dust collector baghouse fines, dust control measures will be functioning correctly to control fugitive emissions to an opacity limit of 20 percent per EPA Reference Method 9.

Upon visual inspection, all haul roads will be controlled with surfactants or other equivalent control methods, to minimize fugitive dust as required under applicable permit conditions.

Shutdown

All required control equipment will operate until all asphalt production ceases.

Maintenance

The feeder bin exit enclosures, asphalt drum mixer, drum mixer dust collector, water sprays, and mineral filler silo dust collector will be maintained to prevent excess emissions during startup or shutdown. This facility will not have excess emissions during any maintenance procedures.

Malfunction

Upon malfunction where excess particulate emissions are observed from the feeder bin exit enclosures, asphalt drum mixer, drum mixer dust collector, scalping screen and pug mill water sprays, mineral filler silo dust collector, and baghouse loadout enclosure and watering, all asphalt production will cease until repairs to control equipment are made.

Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: https://www.env.nm.gov/aqb/permit/aqb_pol.html. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title "Construction Scenarios", specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc.

Plant equipment operation will reflect application, but mine pit size will increase over life of the mine.

Section 16

Air Dispersion Modeling

1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.
3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. **Note:** Neither modeling nor a modeling waiver is required for VOC emissions.	X
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines.	

Check each box that applies:

☐ See attached, approved modeling **waiver for all** pollutants from the facility.
☐ See attached, approved modeling **waiver for some** pollutants from the facility.
■ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.
☐ No modeling is required.

Universal Application 4

Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

16-A: Identification

1	Name of facility: Kirtland Sand & Gravel
2	Name of company: Elam Construction
3	Current Permit number: New Permit
4	Name of applicant's modeler: Paul Wade, Montrose Air Quality Services
5	Phone number of modeler: (505) 830-9680 ext6
6	E-mail of modeler: pwade@montrose-env.com

16-B: Brief

1	Why is the modeling being done? New NSR Permit Application		
2	Describe the permit changes relevant to the modeling. New NSR Permit Application. Facility consists of 500 TPH Aggregate Crushing and Screening Plant, 500 TPH Aggregate Wash Plant, and 400 TPH HMA Plant.		
3	What geodetic datum was used in the modeling? NAD83		
4	How long will the facility be at this location? Permanent		
5	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes	**No**
6	Identify the Air Quality Control Region (AQCR) in which the facility is located. AQCR 014		

7	List the PSD baseline dates for this region (minor or major, as appropriate). PM_{10} Minor Baseline – 8/7/1978; NO2 Minor Baseline – 6/6/1989; SO2 minor baseline – 8/7/1978
8	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits). Mesa Verde National Park – 47 km
9	Is the facility located in a non-attainment area? If so, describe. No
10	Describe any special modeling requirements, such as streamline permit requirements. None

16-C: Modeling History of Facility

1 Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers).

	Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
	CO	New Permit		
	NO_2	New Permit		
	SO_2	New Permit		
	H_2S	New Permit		
	PM2.5	New Permit		
	PM10	New Permit		
	TSP	New Permit		
	Lead	Not Applicable		
	Ozone (PSD only)	Not Applicable		
	NM Toxic Air Pollutants (20.2.72.402 NMAC)	New Permit		

16-D: Modeling performed for this application

1 For each pollutant, indicate the modeling performed and submitted with this application.
Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.

	Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
	CO	Yes	NA	NA	NA	
	NO_2	Yes	Yes	NA	NA	
	SO_2	Yes	Yes	NA	NA	
	H_2S	NA	NA	NA	NA	Not Emitted
	PM2.5	Yes	Yes	Yes	NA	
	PM10	Yes	Yes	Yes	NA	
	TSP	Yes	Yes	NA	NA	
	Lead	NA	NA	NA	NA	Not Emitted
	Ozone	NA	NA	NA	NA	Not Emitted
	Asphalt Fumes	NA	NA	Yes	NA	

16-E: New Mexico toxic air pollutants modeling

1	List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application. Asphalt Fumes

List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.

Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/ Correction Factor
Calcium Hydroxide	0.18	0.333			

16-F: Modeling options

1	What model(s) were used for the modeling? Why? The dispersion modeling was conducted using the American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee Dispersion Model (AERMOD), Version 16216r. This is the regulatory model recommended by EPA for determining Class II impacts within 50 km of the source being assessed.
2	What model options were used and why were they considered appropriate to the application? AERMOD was run using all the regulatory default options including use of stack-tip downwash, buoyancy-induced dispersion, calms processing routines, upper-bound downwash concentrations for super-squat buildings, default wind speed profile exponents, vertical potential temperature gradients, and no use of gradual plume rise. Non-default options included the use of flat terrain mode for fugitive ground release sources and horizontal release stacks. The model incorporated local terrain into the calculations for point sources and neighboring point sources only. Surrounding terrain (within 500 meters) is basically flat for fugitive dust volume source modeling, so all volume sources were modeled using the flat terrain option.

16-G: Surrounding source modeling

1	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the unmerged list of sources to describe the changes. Valley Scrap Metal - Aluminum Sweat Furnace UTM coordinates were incorrect. Hours of operation for Valley Scrap Metal - Aluminum Sweat Furnace were limited to daylight hours only per Eric Peters email dated November 27, 2017.
2	Date of surrounding source retrieval. From Eric Peters – 10/24/2017

AQB Source ID	Description of Corrections
1370E2	Correction - UTM Coordinates 737130E; 4069125N

16-H: Building and structure downwash

1	How many buildings are present at the facility?	0	
2	How many above ground storage tanks are present at the facility?	8	
3	Was building downwash modeled for all buildings?	Yes	**No**
4	If not, explain why. No buildings located on site.		
5	Building comments		

16-I: Receptors and modeled property boundary

1	"Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility. Describe the fence or other physical barrier at the facility that defines the restricted area. Fencing and gate		
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?	Yes	**No**
3	Are restricted area boundary coordinates included in the modeling files?	**Yes**	No
4	Describe the receptor grids and their spacing. For each pollutant, the radius of significant impact around the facility is established using a Cartesian grid. A 50-meter spacing and 100-meter spacing are extended to 500-meters and 1-km beyond the facility boundary, respectively from the facility boundary in each direction for a very fine grid resolution. Receptors for a fine grid resolution are placed with 250-meter spacing to a distance of 3-km from the facility boundary. Receptors for a course grid resolution are placed with 500-meter, 1000-meter, and 2000-meter spacing to a distance of 5-km, 10-km, and 24-km, respectively from the facility boundary.		
5	Describe receptor spacing along the fence line. A 50-meter grid spacing is used for the facility boundary receptors, because most of the sources are low release fugitive emission sources.		
6	Describe the PSD Class I area receptors. Receptors placed along Mesa Verde southern boundary at a 200 meter spacing.		

16-J: Sensitive areas

1	Are there schools or hospitals or other sensitive areas near the facility? This information is optional (and purposely undefined), but may help determine issues related to public notice.	Yes	**No**
2	If so, describe.		
3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	**Yes**	No

16-K: Modeling Scenarios

1

Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).

Aggregate Crushing Plant

The 500 tph aggregate quarry and crushing operations will include an aggregate quarry, feeder, primary jaw crusher, two (2) secondary cone crushers, three (3) 6' x 20' screens, eighteen (18) transfer conveyors, and five (5) stacker conveyors. The plant will be powered by a 1429 horsepower (hp) generator during hours of aggregate processing and a 113 hp standby generator **at all other times**. Aggregate from the quarry will be transported to the aggregate crushing plant by large rock trucks. Processed aggregate will be transported from the aggregate crushing plant to the HMA plant, aggregate wash plant, and off-site sales. The aggregate crushing plant will limit hourly processing rate to 500 tph and 1,000,000 tons per year (tpy). The hours of operation is presented below in Table 1, but the aggregate crushing plant will limit the daily throughput per season to the values listed in Table 2.

TABLE 1: Aggregate Crusher Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	1	1	1	0	0	0	0
7:00 AM	0	0	1	1	1	1	1	1	1	1	1	0
8:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
9:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	0	1	1	1	1	1	1	1	1	1	1	0
5:00 PM	0	1	1	1	1	1	1	1	0	0	0	0
6:00 PM	0	0	0	0	0	1	1	1	0	0	0	0
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	8	10	11	11	11	13	13	13	10	10	10	8

TABLE 2: Aggregate Daily Production Rates

Season	Tons Per Day
Winter	4000
Spring	5500
Summer	5500
Fall	4500

Since the daily production rate is less than the proposed hours of operation running at maximum hourly production rate, two modeling scenarios will be performed, one for morning and one for afternoon hours. The model hours are presented in Tables 3 and 4.

TABLE 3: Aggregate Crusher Morning Modeled Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	1	1	1	0	0	0	0
7:00 AM	0	0	1	1	1	1	1	1	1	1	1	0
8:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
9:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	0	0	1	1	1	1	1	1	0	0	0	0
5:00 PM	0	0	1	1	1	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	8	8	11	11	11	11	11	11	9	9	9	8

TABLE 4: Aggregate Crusher Afternoon Modeled Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	1	1	1	0	0	0	0	0	0	0
8:00 AM	1	0	1	1	1	1	1	1	1	1	1	1
9:00 AM	1	0	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	0	1	1	1	1	1	1	1	1	1	1	0
5:00 PM	0	1	1	1	1	1	1	1	0	0	0	0
6:00 PM	0	0	0	0	0	1	1	1	0	0	0	0
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	8	8	11	11	11	11	11	11	9	9	9	8

Aggregate Wash Plant

The 500 tph aggregate wash plant will include a feeder, twin-screw wash plant, six (6) transfer conveyors, and four (4) stacker conveyors. The plant will be powered by a 475 horsepower (hp) generator. Processed aggregate will be transported from the aggregate wash plant to the HMA plant, concrete batch plant, and off-site sales. The aggregate wash plant will limit hourly processing rate to 500 tph and 1,000,000 tons per year (tpy). The hours of operation will be daylight hours and is presented below in Table 5.

TABLE 5: Wash Plant Modeled Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	1	1	1	1	1	0.5	0	0	0
6:00 AM	0	0.5	1	1	1	1	1	1	1	1	0.5	0

7:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
8:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
9:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
5:00 PM	0.5	1	1	1	1	1	1	1	1	1	0	0
6:00 PM	0	0	0	1	1	1	1	1	0.5	0	0	0
7:00 PM	0	0	0	0	0	0.5	0.5	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	10.5	11.5	12	14	14	14.5	14.5	14	13	12	10.5	10

HMA Plant

The 400 tph hot mix asphalt plant will include a 5-bin cold aggregate feeder, scalping screen, pug mill, 2- bin RAP feeder , RAP scalping screen, mineral filler silo with baghouse, drum dryer with baghouse, incline conveyor, asphalt silo, asphalt heater, and eight (8) transfer conveyors. The plant will be powered by a 1429 horsepower (hp) generator during hours of asphalt processing and a 158 hp standby generator **at all other times**. Processed asphalt will be transported from the HMA plant to off-site sales. The HMA plant will limit hourly processing rate to 400 tph and 400,000 tons per year (tpy). The hours of operation is presented below in Table 6. Seasonal daily throughput are presented in Table 7.

TABLE 6: HMA Plant Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	1	1	1	0	0	0	0
1:00 AM	0	0	0	0	0	1	1	1	0	0	0	0
2:00 AM	0	0	0	0	0	1	1	1	0	0	0	0
3:00 AM	0	0	0	0	0	1	1	1	0	0	0	0
4:00 AM	0	0	1	1	1	1	1	1	1	1	1	0
5:00 AM	0	0	1	1	1	1	1	1	1	1	1	0
6:00 AM	0	0	1	1	1	1	1	1	1	1	1	0
7:00 AM	0	0	1	1	1	1	1	1	1	1	1	0
8:00 AM	0	0	1	1	1	1	1	1	1	1	1	0
9:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1

2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
5:00 PM	0	0	1	1	1	1	1	1	1	1	1	0
6:00 PM	0	0	1	1	1	1	1	1	1	1	1	0
7:00 PM	0	0	1	1	1	1	1	1	1	1	1	0
8:00 PM	0	0	1	1	1	1	1	1	0	0	0	0
9:00 PM	0	0	1	1	1	1	1	1	0	0	0	0
10:00 PM	0	0	0	0	0	1	1	1	0	0	0	0
11:00 PM	0	0	0	0	0	1	1	1	0	0	0	0
Total	8	8	18	18	18	24	24	24	16	16	16	8

TABLE 7: HMA Daily Production Rates and Corresponding Max Hours of Production

Season	Tons Per Day	At Max Hourly Throughput – Hours per Day
Winter	3200	8
Spring	4000	10
Summer	4000	10
Fall	4000	10

Table 8 presents the 12 model scenarios modeled hours for showing compliance with the worst-case operating scenario.

TABLE 8: HMA Model Scenario Time Segments

Model Scenario	Time Segments 8-Hour Blocks Winter Months	Time Segments 10-Hour Blocks Spring, Summer, Fall Months
1	6 AM to 2 PM	12 AM to 10 AM
2	8 AM to 4 PM	2 AM to 12 PM
3	9 AM to 5 PM	4 AM to 2 PM
4	9 AM to 5 PM	6 AM to 4 PM
5	9 AM to 5 PM	8 AM to 6 PM
6	9 AM to 5 PM	10 AM to 8 PM
7	9 AM to 5 PM	12 PM to 10 PM
8	9 AM to 5 PM	2 PM to 12 AM
9	9 AM to 5 PM	4 PM to 2 AM
10	9 AM to 5 PM	6 PM to 4 AM
11	9 AM to 5 PM	8 PM to 6 AM
12	9 AM to 5 PM	10 PM to 8 AM

2 Which scenario produces the highest concentrations? Why?
Highest concentrations for particulate modeling occurred when the HMA plant is operating in the evening and early morning.

3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)	**Yes**	No

4 If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.)
Sources:

5

Hour of Day	Factor	Hour of Day	Factor								
1		13									
2		14									
3		15									
4		16		See tables in 16-K 1							
5		17									
6		18									
7		19									
8		20									
9		21									
10		22									
11		23									
12		24									

If hourly, variable emission rates were used that were not described above, describe them here: No

6	Were different emission rates used for short-term and annual modeling?	**Yes**	No

7 If yes, describe. Emission rates in annual models take in the requested annual production limit by including an hourly factor.
Yes
HMA Plant Annual Hourly Factor – 400,000 ton/yr permit limit / 1,391,200 max tons/yr = 0.288 hourly factor
Aggregate Crusher Plant Annual Hourly Factor – 1,000,000 ton/yr permit limit / 1,785,500 max tons/yr = 0.560 hourly factor
Aggregate Wash Plant Annual Hourly Factor – 1,000,000 ton/yr permit limit / 2,289,500 max tons/yr = 0.437 hourly factor

16-L: NO_2 Modeling

1 Which types of NO_2 modeling were used?
Check all that apply.

	100% NO_X to NO_2 conversion
	ARM
X	PVMRM – 1 hour averaging period
	OLM
X	ARM2 – ROI and CIA annual period
	Other:

2 Describe the NO_2 modeling.
NO_2 PVMRM modeling includes hourly monitored ozone concentrations corresponding to the meteorological data for the same year and hour. ARM2 modeling used EPA default inputs.

3	In-stack NO_2/NO_X ratio(s) used in modeling. **Summary of Selected ISR** **Source Description** / **Selected ISR** Kirtland HMA Baghouse Stack: 0.50 Kirtland HMA Asphalt Cement Heater: 0.50 Kirtland Plant Generators/Engines: 0.20 Kirtland CBP Plant Water Heater: 0.50
4	Equilibrium NO_2/NO_X ratio(s) used in modeling. EPA Defaults
5	Describe/justify the use of the ratios chosen. Based on EPA's ISR databases, a proposed conservative NO_2/NO_X ISR ratio for Diesel-fired RICE is 0.20. No data could be found for a hot mix asphalt drum so to be conservative the EPA default ISR of 0.50 was used. For natural gas combustion, to be conservative, the EPA default ISR of 0.50 was used.
6	Describe the design value used for each averaging period modeled. 1-hour: 98th percentile as calculated by AERMOD

16-M: Particulate Matter Modeling

1	Select the pollutants for which plume depletion modeling was used.	
		PM2.5
	X	PM10
	X	TSP
		None

2

Describe the particle size distributions used.
Include the source of information.

Representative average particle densities were obtained from NMED accepted values.

Material	Density (g/cm^3)	Reference
Road Dust – Kirtland and Neighbor	2.5	NMED Value
Lime – Kirtland and Neighbor	3.3	NMED Value
HMA Asphalt – Kirtland and Neighbor	1.5	NMED Value
Combustion – Kirtland and Neighbor	1.5	NMED Value
Fugitive Dust – Kirtland and Neighbor	2.5	NMED Value
Cooling Tower - Neighbor	2.5	NMED Value
Coal - Neighbor	1.5	NMED Value
Fly Ash - Neighbor	1.04	NMED Value
Cement - Neighbor	2.85	NMED Value

The densities and size distribution for PM_{10} and TSP emission sources are presented in Tables 1 - 9.

TABLE 1: Unpaved Road Vehicle Fugitive Dust Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0 – 2.5	1.57	25.0	2.5
2.5 – 10	6.91	75.0	2.5
TSP			
0-2.5	1.57	5.0	2.5
2.5-10	6.91	15.0	2.5
10-15	12.63	5.0	
15-30	23.23	75.0	2.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 2: Lime Baghouse Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0-2.5	1.57	25	3.3
2.5-10	6.91	75	3.3
TSP			
0-2.5	1.57	17.4	3.3
2.5-10	6.91	52.1	3.3
10-30	21.54	30.5	3.3

Parameters based on baghouse exhaust capture percentages.

TABLE 3: Combustion Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0 - 2.5	1.57	100	1.5
TSP			
0 - 2.5	1.57	100	1.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 4: Asphalt Baghouse and Stack Source Depletion Parameters

Particle Size Category	Mass Mean Particle Diameter	Mass Weighted Size Distribution	Density (g/cm^3)

(μm)	(μm)	(%)	
PM10			
0-1.0	0.63	50.0	1.5
1.0-2.5	1.85	19.0	1.5
2.5-10	6.92	31.0	1.5
TSP			
0-1.0	0.63	15.0	1.5
1.0-2.5	1.85	6.0	1.5
2.5-10	6.92	9.0	1.5
10.0-15.0	12.66	5.0	1.5
15.0-30.0	23.3	65.0	1.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 5: Fugitive Dust Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
2.5 – 5	3.88	22.6	2.5
5 – 10	7.77	77.4	2.5
TSP			
2.5 – 5	3.88	6.0	2.5
5 – 10	7.77	20.5	2.5
10 – 15	12.66	16.0	2.5
15 – 20	17.62	17.5	2.5
20 – 30	25.33	22.5	2.5
30 – 45	38.00	17.5	2.5

Parameters based on values from the Albuquerque Air Quality Division Modeling Guidelines.

TABLE 6: Cooling Tower Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0-2.5	1.57	7.8	2.5
2.5-5	3.88	27.0	2.5
5-10	7.77	65.2	2.5
TSP			
0-2.5	1.57	3.0	2.5
2.5-5	3.88	10.0	2.5
5-10	7.77	24.0	2.5

10-20	15.54	38.0	2.5
20-30	25.33	25.0	2.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 7: Coal Handling Fugitive Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0-2.5	1.57	7.8	1.5
2.5-5	3.88	27.0	1.5
5-10	7.77	65.2	1.5
TSP			
0-2.5	1.57	3.0	1.5
2.5-5	3.88	10.0	1.5
5-10	7.77	24.0	1.5
10-20	15.54	38.0	1.5
20-30	25.33	25.0	1.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 8: Fly Ash Baghouse Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0-2.5	1.57	7.8	1.5
2.5-5	3.88	27.0	1.5
5-10	7.77	65.2	1.5
TSP			
0-2.5	1.57	3.0	1.5
2.5-5	3.88	10.0	1.5
5-10	7.77	24.0	1.5
10-20	15.54	38.0	1.5
20-30	25.33	25.0	1.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 9: Cement Baghouse Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0-2.5	1.5	0.26	2.85

2.5-5	3	0.25	2.85
5-10	6	0.48	2.85
TSP			
0-2.5	1.5	0.11	2.85
2.5-5	3	0.11	2.85
5-10	6	0.21	2.85
10-20	12	0.26	2.85
	24	0.23	2.85
20-30	30	0.08	2.85

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

3	Was secondary PM modeled for PM2.5? Only required for PSD major modifications that are significant for NOx and/or SOx. Optional for minor sources, but allows use of high eighth high.	Yes	**No**
	Highest 8th high was used in the model analysis by determining how fast the $PM_{2.5}$ concentration drop-off occurred. Since the drop-off to below SILs was within 2 kilometers of the facility there was not time to convert facility NO_2 and SO_2 emissions to nitrates or sulfates.		

16-N: Setback Distances and Source Classification

1 Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.

Equipment locations for this site are permanent, but if in the future equipment is relocated within the site an analysis will be done to make sure the site is still in compliance with NAAQS and NMAAQS.

2 Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.

3	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match?	Yes	**No**

4 Provide a cross-reference table between unit numbers if they do not match. It's ok to place the table below section 16-N for easier formatting.

Emission Unit #	Model ID	Emission Source Description
68, 69	HMASTK	Kirtland HMA Baghouse Stack
74	HMAGEN	Kirtland HMA Main Plant Generator
75	HMASGEN	Kirtland HMA Standby Plant Generator
72	HMAHEAT	Kirtland HMA Asphalt Cement Heater
66, 67	HMAFILL	Kirtland HMA Mineral Filler Silo Loading
70	DRUMUNL	Kirtland HMA Asphalt Silo Loading
71	HMASILO	Kirtland HMA Asphalt Silo Unloading
52	HMAPILE1	Kirtland HMA Storage Pile Handling 1
	HMAPILE2	Kirtland HMA Storage Pile Handling 2
	HMAPILE3	Kirtland HMA Storage Pile Handling 3
	HMAPILE4	Kirtland HMA Storage Pile Handling 4
	HMAPILE5	Kirtland HMA Storage Pile Handling 5
53	HMABIN	Kirtland HMA Bin Loading

54	HMATP1	Kirtland HMA Bin Unloading
55	HMASCR	Kirtland HMA Scalping Screen
56	HMATP2	Kirtland HMA Scalping Screen Unloading
57	HMAPUG	Kirtland HMA Pug Mill
58	HMATP3	Kirtland HMA Pug Mill Unloading
59	HMATP4	Kirtland HMA Conveyor Transfer to Drum Conveyor
60	RAPBIN	Kirtland HMA RAP Bin Loading
61	RAPTP1	Kirtland HMA RAP Bin Unloading
62	RAPSCR	Kirtland HMA RAP Screen
63	RAPTP2	Kirtland HMA RAP Screen Unloading
64	RAPTP3	Kirtland HMA RAP Transfer Point
65	RAPTP4	Kirtland HMA RAP Transfer Point
76, 77	HMA_0001-62	Unpaved Road HMA to Exit Volume 1-62
51	CRH_0001-83	Unpaved Road Crusher to HMA Volume 1-83
	CRE_0001-52	Unpaved Road Crusher to Exit Volume 1-52
	CRW_0001-82	Unpaved Road Crusher to Wash Plant Volume 1-82
	WPE_0001-61	Unpaved Road Wash Plant to Exit Volume 1-61
	ROC_0001-11	Unpaved Road Rock Haul Trucks to Crusher Volume 1-11

5	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match?	Yes	**No**

6

If not, explain why.

For emission rates where wind speed is part of the regulated emission rate calculation, the annual wind speed was used in the calculation submitted to the model while 11 MPH was used in the regulated hourly emission rate in Table 2-E.

Model ID	Emission Source Description	TSP Emission (lbs/hr)	PM10 Emission (lbs/hr)	PM2.5 Emission (lbs/hr)
1	Feeder	2.32409	1.09923	0.16646
31P1	Stacker Conveyor Drop to Pile 1	0.27898	0.13195	0.01998
31P2	Stacker Conveyor Drop to Pile 2	0.27898	0.13195	0.01998
31P3	Stacker Conveyor Drop to Pile 3	0.27898	0.13195	0.01998
31P4	Stacker Conveyor Drop to Pile 4	0.27898	0.13195	0.01998
31P5	Stacker Conveyor Drop to Pile 5	0.27898	0.13195	0.01998
32P1	Finish Product Storage Pile 1	0.46482	0.21985	0.03329
32P2	Finish Product Storage Pile 2	0.46482	0.21985	0.03329
32P3	Finish Product Storage Pile 3	0.46482	0.21985	0.03329
32P4	Finish Product Storage Pile 4	0.46482	0.21985	0.03329
32P5	Finish Product Storage Pile 5	0.46482	0.21985	0.03329
33	Product Truck Loading - Finish Pile	2.32409	1.09923	0.16646
36	Wet Plant Feeder	2.32409	1.09923	0.16646
48P1	Wet Plant Finish Product Storage Pile 1	0.58102	0.27481	0.04161
48P2	Wet Plant Finish Product Storage Pile 2	0.58102	0.27481	0.04161
48P3	Wet Plant Finish Product Storage Pile 3	0.58102	0.27481	0.04161
48P4	Wet Plant Finish Product Storage Pile 4	0.58102	0.27481	0.04161
49	Wet Plant Product Truck Loading - Finish Pile	2.32409	1.09923	0.16646
HMAPILE1	Kirtland HMA Storage Pile Handling 1	0.34397	0.16269	0.02464
HMAPILE2	Kirtland HMA Storage Pile Handling 2	0.34397	0.16269	0.02464
HMAPILE3	Kirtland HMA Storage Pile Handling 3	0.34397	0.16269	0.02464
HMAPILE4	Kirtland HMA Storage Pile Handling 4	0.34397	0.16269	0.02464

	HMAPILE5	Kirtland HMA Storage Pile Handling 5	0.34397	0.16269	0.02464	
	HMABIN	Kirtland HMA Bin Loading	1.71983	0.81343	0.12318	
	RAPBIN	Kirtland HMA RAP Bin Loading	0.19522	0.09234	0.01398	

7	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes	**No**

8 Which units consume increment for which pollutants?

Model ID	Source Description	PM10	NO_2	SO_2
Quarry	Quarry	X		
1	Feeder	X		
2	Cedarapids Jaw Crusher	X		
3	Transfer Conveyor	X		
4	Transfer Conveyor	X		
5	Cedarapids 6'x20' Screen	X		
6	Stacker Conveyor	X		
7	Under Screen Transfer Conveyor	X		
8	Transfer Conveyor	X		
9	Secondary Cone Crusher	X		
10	Secondary Cone Crusher Transfer Conveyor	X		
11	Transfer Conveyor	X		
12	Under Screen Transfer Conveyor	X		
13	Transfer Conveyor	X		
14	Secondary Cone Crusher	X		
15	Secondary Cone Crusher Transfer Conveyor	X		
16	Transfer Conveyor	X		
17	Cedarapids 6'x20' Screen	X		
18	Transfer Conveyor	X		
19	Stacker Conveyor	X		
20	Transfer Conveyor	X		
21	Transfer Conveyor	X		
22	Transfer Conveyor	X		
23	Stacker Conveyor	X		
24	Under Screen Transfer Conveyor	X		
25	Transfer Conveyor	X		
26	Cedarapids 6'x20' Screen	X		
27	Under Screen Transfer Conveyor	X		
28	Stacker Conveyor	X		
29	Under Screen Transfer Conveyor	X		
30	Stacker Conveyor	X		
31P1	Stacker Conveyor Drop to Pile 1	X		
31P2	Stacker Conveyor Drop to Pile 2	X		
31P3	Stacker Conveyor Drop to Pile 3	X		
31P4	Stacker Conveyor Drop to Pile 4	X		
31P5	Stacker Conveyor Drop to Pile 5	X		
32P1	Finish Product Storage Pile 1	X		
32P2	Finish Product Storage Pile 2	X		
32P3	Finish Product Storage Pile 3	X		
32P4	Finish Product Storage Pile 4	X		

32P5	Finish Product Storage Pile 5	X		
33	Product Truck Loading - Finish Pile	X		
34	Crusher Plant Generator	X	X	X
35	Crusher Plant Standby Generator	X	X	X
36	Wet Plant Feeder	X		
37	Wet Plant Transfer Conveyor	X		
38	Wet Plant Transfer Conveyor	X		
48P1	Wet Plant Finish Product Storage Pile 1	X		
48P2	Wet Plant Finish Product Storage Pile 2	X		
48P3	Wet Plant Finish Product Storage Pile 3	X		
48P4	Wet Plant Finish Product Storage Pile 4	X		
49	Wet Plant Product Truck Loading - Finish Pile	X		
50	Wash Plant Generator	X	X	X
CRH_0001-83	Unpaved Road Crusher to HMA Volume 1-83	X		
CRE_0001-52	Unpaved Road Crusher to Exit Volume 1-52	X		
CRW_0001-82	Unpaved Road Crusher to Wash Plant Volume 1-82	X		
WPE_0001-61	Unpaved Road Wash Plant to Exit Volume 1-61	X		
ROC_0001-11	Unpaved Road Rock Haul Trucks to Crusher Volume 1-11	X		
HMASTK	Kirtland HMA Baghouse Stack	X	X	X
HMAGEN	Kirtland HMA Main Plant Generator	X	X	X
HMASGEN	Kirtland HMA Standby Plant Generator	X	X	X
HMAHEAT	Kirtland HMA Asphalt Cement Heater	X	X	X
HMAFILL	Kirtland HMA Mineral Filler Silo Loading	X		
DRUMUNL	Kirtland HMA Asphalt Silo Loading	X		
HMASILO	Kirtland HMA Asphalt Silo Unloading	X		
HMAPILE1	Kirtland HMA Storage Pile Handling 1	X		
HMAPILE2	Kirtland HMA Storage Pile Handling 2	X		
HMAPILE3	Kirtland HMA Storage Pile Handling 3	X		
HMAPILE4	Kirtland HMA Storage Pile Handling 4	X		
HMAPILE5	Kirtland HMA Storage Pile Handling 5	X		
HMABIN	Kirtland HMA Bin Loading	X		
HMATP1	Kirtland HMA Bin Unloading	X		
HMASCR	Kirtland HMA Scalping Screen	X		
HMATP2	Kirtland HMA Scalping Screen Unloading	X		
HMAPUG	Kirtland HMA Pug Mill	X		
HMATP3	Kirtland HMA Pug Mill Unloading	X		
HMATP4	Kirtland HMA Conveyor Transfer to Drum Conveyor	X		
RAPBIN	Kirtland HMA RAP Bin Loading	X		
RAPTP1	Kirtland HMA RAP Bin Unloading	X		
RAPSCR	Kirtland HMA RAP Screen	X		
RAPTP2	Kirtland HMA RAP Screen Unloading	X		
RAPTP3	Kirtland HMA RAP Transfer Point	X		
RAPTP4	Kirtland HMA RAP Transfer Point	X		
HMA_0001-62	Unpaved Road HMA to Exit Volume 1-62	X		

9	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date). All sources will be installed after NO_2, SO_2, PM_{10} PSD minor source baseline date and modeled to show emissions from the facility would not cause violation of NO_2, SO_2, PM_{10} PSD increment limits. Neighboring increment source out to 20 km were included in the analysis.		
10	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling.	Yes	**No - TBD**
11	If not please explain how increment consumption status is determined for the missing installation dates. All sources are new sources to be installed after the baseline dates.		

16-O: Flare Modeling

1	For each flare or flaring scenario, complete the following			
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	NA			

16-P: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines?	**Yes**	No
2	If the dimensions of volume sources are different from standard dimensions in the AQB Modeling Guidelines, describe how the dimensions were determined.		
3	Describe the determination of sigma-Y and sigma-Z for fugitive sources. AQB Modeling Guidelines		

4 Describe how the volume sources are related to unit numbers.
Or say they are the same.

Model ID	Source Description	Release Height (m)	SYINIT (m)	SZINIT (m)
1	Feeder	6.00	1.16	2.33
2	Cedarapids Jaw Crusher	6.00	1.16	2.33
3	Transfer Conveyor	2.00	0.47	0.93
4	Transfer Conveyor	2.00	0.47	0.93
5	Cedarapids 6'x20' Screen	4.00	1.16	2.33
6	Stacker Conveyor	2.00	0.47	0.93
7	Under Screen Transfer Conveyor	2.00	0.47	0.93
8	Transfer Conveyor	2.00	0.47	0.93
9	Secondary Cone Crusher	6.00	1.16	2.33
10	Secondary Cone Crusher Transfer Conveyor	2.00	0.47	0.93
11	Transfer Conveyor	2.00	0.47	0.93
12	Under Screen Transfer Conveyor	2.00	0.47	0.93

13	Transfer Conveyor	2.00	0.47	0.93
14	Secondary Cone Crusher	6.00	1.16	2.33
15	Secondary Cone Crusher Transfer Conveyor	2.00	0.47	0.93
16	Transfer Conveyor	2.00	0.47	0.93
17	Cedarapids 6'x20' Screen	4.00	1.16	2.33
18	Transfer Conveyor	2.00	0.47	0.93
19	Stacker Conveyor	2.00	0.47	0.93
20	Transfer Conveyor	2.00	0.47	0.93
21	Transfer Conveyor	2.00	0.47	0.93
22	Transfer Conveyor	2.00	0.47	0.93
23	Stacker Conveyor	2.00	0.47	0.93
24	Under Screen Transfer Conveyor	2.00	0.47	0.93
25	Transfer Conveyor	2.00	0.47	0.93
26	Cedarapids 6'x20' Screen	4.00	1.16	2.33
27	Under Screen Transfer Conveyor	6.00	1.16	2.33
28	Stacker Conveyor	2.00	0.47	0.93
29	Under Screen Transfer Conveyor	2.00	0.47	0.93
30	Stacker Conveyor	2.00	0.47	0.93
31P1	Stacker Conveyor Drop to Pile 1	4.00	0.47	0.93
31P2	Stacker Conveyor Drop to Pile 2	4.00	0.47	0.93
31P3	Stacker Conveyor Drop to Pile 3	4.00	0.47	0.93
31P4	Stacker Conveyor Drop to Pile 4	4.00	0.47	0.93
31P5	Stacker Conveyor Drop to Pile 5	4.00	0.47	0.93
32P1	Finish Product Storage Pile 1	4.00	1.16	2.33
32P2	Finish Product Storage Pile 2	4.00	1.16	2.33
32P3	Finish Product Storage Pile 3	4.00	1.16	2.33
32P4	Finish Product Storage Pile 4	4.00	1.16	2.33
32P5	Finish Product Storage Pile 5	4.00	1.16	2.33
33	Product Truck Loading - Finish Pile	6.00	1.16	2.33
36	Wet Plant Feeder	6.00	1.16	2.33
37	Wet Plant Transfer Conveyor	2.00	0.47	0.93
38	Wet Plant Transfer Conveyor	4.00	0.47	0.93
48P1	Wet Plant Finish Product Storage Pile 1	4.00	1.16	2.33
48P2	Wet Plant Finish Product Storage Pile 2	4.00	1.16	2.33
48P3	Wet Plant Finish Product Storage Pile 3	4.00	1.16	2.33
48P4	Wet Plant Finish Product Storage Pile 4	4.00	1.16	2.33
49	Wet Plant Product Truck Loading - Finish Pile	6.00	1.16	2.33
CRH_0001-83	Unpaved Road Crusher to HMA Volume 1-83	3.40	6.80	3.16
CRE_0001-52	Unpaved Road Crusher to Exit Volume 1-52	3.40	6.80	3.16
CRW_0001-82	Unpaved Road Crusher to Wash Plant Volume 1-82	3.40	6.80	3.16
WPE_0001-61	Unpaved Road Wash Plant to Exit Volume 1-61	3.40	6.80	3.16
ROC_0001-11	Unpaved Road Rock Haul Trucks to Crusher Volume 1-11	3.40	6.80	3.16
DRUMUNL	Kirtland HMA Asphalt Silo Loading	2.00	0.47	0.93
HMASILO	Kirtland HMA Asphalt Silo Unloading	4.00	0.47	0.93
HMAPILE1	Kirtland HMA Storage Pile Handling 1	2.44	7.16	2.27
HMAPILE2	Kirtland HMA Storage Pile Handling 2	2.44	7.16	2.27
HMAPILE3	Kirtland HMA Storage Pile Handling 3	2.44	7.16	2.27
HMAPILE4	Kirtland HMA Storage Pile Handling 4	2.44	7.16	2.27

HMAPILE5	Kirtland HMA Storage Pile Handling 5	2.44	7.16	2.27
HMABIN	Kirtland HMA Bin Loading	6.00	1.16	2.33
HMATP1	Kirtland HMA Bin Unloading	2.00	0.47	0.93
HMASCR	Kirtland HMA Scalping Screen	4.00	1.16	2.33
HMATP2	Kirtland HMA Scalping Screen Unloading	2.00	0.47	0.93
HMAPUG	Kirtland HMA Pug Mill	4.00	1.16	2.33
HMATP3	Kirtland HMA Pug Mill Unloading	2.00	0.47	0.93
HMATP4	Kirtland HMA Conveyor Transfer to Drum Conveyor	2.00	0.47	0.93
RAPBIN	Kirtland HMA RAP Bin Loading	6.00	1.16	2.33
RAPTP1	Kirtland HMA RAP Bin Unloading	2.00	0.47	0.93
RAPSCR	Kirtland HMA RAP Screen	4.00	1.16	2.33
RAPTP2	Kirtland HMA RAP Screen Unloading	2.00	0.47	0.93
RAPTP3	Kirtland HMA RAP Transfer Point	2.00	0.47	0.93
RAPTP4	Kirtland HMA RAP Transfer Point	2.00	0.47	0.93
HMA_0001-62	Unpaved Road HMA to Exit Volume 1-62	3.40	6.80	3.16

5 Describe any open pits. NA

6 Describe emission units included in each open pit. NA

16-Q: Background Concentrations

Identify and justify the background concentrations used.

Ambient background concentrations represent the contribution of pollutant sources that are not included in the modeling analysis, including naturally occurring sources. If the modeled concentration of a criteria pollutant is above the modeling significance level, the background concentration for each criteria pollutant will be added to the maximum modeled concentration to calculate the total estimated pollutant concentration for comparison with the AAQS.

1 The ambient background concentrations are listed in the Air Quality Bureau Guidelines for TSP, PM10, and $PM_{2.5}$. For TSP, PM10, and $PM_{2.5}$, Elam is using backgrounds from Farmington Environmental Department (Monitor ID 1FO). For NO_X and SO_2, Elam is using backgrounds from Shiprock Substation (Monitor ID 1H). For CO, Elam is using backgrounds from the rest of New Mexico (Monitor ID 350010023).

	$PM_{2.5}$ ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)	TSP ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)	CO ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)
1 Hour					1787.865	44.515
8 Hour					1183.006	
24 Hour	14.13	42.0	42.0			
Annual	4.19		8.5	10.836		

16-R: Meteorological Data

Identify and justify the meteorological data set(s) used.

Dispersion model meteorological input files were created for the year 2016 from meteorological data collected at Farmington Airport, NM for the year 2016, about 5 kilometers from the site. The similar elevation, topography, terrain, vegetation, and climate of both sites make this meteorological data representative of the model area. Figure 2 shows wind rose diagram of the meteorological wind speed versus direction data that has been collected for the year 2016.

AERMET wind speed threshold for surface data will be 0.5 meters per second.

To reduce the high incidence of calms and variable wind conditions, AERMINUTE (*Version 15272*) was used to supplement hourly observed wind speed and direction for the Farmington surface data when processing with AERMET. Albuquerque Airport 2016 data was used for upper air.

Since the meteorological input data does not use turbulence data, the adjust U* option in AERMET was used during processing of the meteorological data.

AERMET/AERMOD requires that several additional parameters be input during data processing in AERMET:

- Surface roughness length (m)
- Albedo
- Bowen Ratio

1 The surface roughness length influences the surface shear stress and is an important factor in determining the magnitude of mechanical turbulence and the stability of the boundary layer. The albedo is the fraction of total incident solar radiation reflected by the surface back to space without absorption. The daytime Bowen ratio, an indicator of surface moisture, is the ratio of sensible heat flux to latent heat flux and, together with albedo and other meteorological observations, is used for determining planetary boundary layer parameters for convective conditions driven by the surface sensible heat flux.

These parameters would be obtained using AERSURFACE (*Version 13016*). AERSURFACE requires the input of land cover data from the U.S. Geological Survey (USGS) National Land Cover Data 1992 archives (NLCD92), which it uses to determine the land cover types for the Farmington airport-specified location. AERSURFACE matches the NLCD92 land cover categories to seasonal values of albedo, Bowen ratio, and surface roughness. Values of surface characteristics are calculated based on the land cover data for the study area and output in a format for input into AERMET Stage 3. Site descriptive questions required by AERSURFACE include:

- Meteorological data from airport
- Continuous snowcover in winter
- Arid climate
- Dry climate

For the Farmington Airport meteorological data, YES was checked for airport data, NO was checked for continuous snowcover, YES was checked for arid climate, and YES was checked for dry climate. For each parameter, data was extracted from land cover data for each month of the year and 12 equal sectors radiating from the Farmington Airport.

The meteorological data was processed using AERMET (*Version 16216)* and upper air from Albuquerque Airport for the