STATEMENT OF BASIS

For the issuance of Air Permit # 1016-AOP-R18 AFIN: 10-00004

1. PERMITTING AUTHORITY:

Division of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Elemental Environmental Solutions LLC 500 East Reynolds Road Arkadelphia, Arkansas 71923

3. PERMIT WRITER:

Sterling Powers

4. NAICS DESCRIPTION AND CODE:

NAICS Description:Hazardous Waste Treatment and DisposalNAICS Code:562211

5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
5/31/2024	Minor Mod	Add 3 Silos
6/20/2024	Minor Mod	Add two water pumps at the landfill
07/09/2024	Minor Mod	Remove 8 silos, Add 3 Fly Ash Silos, 2
		Limo Silos

6. **REVIEWER'S NOTES**:

Elemental Environmental Solutions LLC (EES) operates a hazardous waste and spent potliner thermal treatment process at its facility located in Gum Springs, Arkansas. This minor permit modification proposes to add a Carbon Silo with Truck Loadouts (SN-54), an Alumina Silo with Truck Loadouts (SN-55), a cement kiln dust silo (CKD Silo with Truck Loadouts (SN-56)); add a Bulk Solid Railcar Unloading unit to the Insignificant Activities List; also, add two new engines (as SN-57A and 57B) to provide power to two identical diesel pumps at the landfill. In addition, the six fly ash silos and the four lime silos (SN-42 and 43) will be removed and replaced with three new fly ash silos and two new lime silos at the same source.

Permitted emissions will increase by 0.2 tpy SO_X, 0.2 tpy VOC, 0.6 tpy CO, 0.2 tpy NO_X, 0.02 tpy Total HAPs, and permitted emissions will decrease by 0.1 tpy PM_{10} , 0.65 tpy PM.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

Facility was last inspected on March 9, 2022. Inspection found possible violations involving throughput limits at SN-39, and opacity records being unavailable or not completed. Reference document Z0004JR97.xml for the inspection letter and document Z0004KPJM.xml for facility response.

8. PSD/GHG APPLICABILITY:

a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? N If yes, were GHG emission increases significant? N

- b) Is the facility categorized as a major source for PSD? N
- Single pollutant \geq 100 tpy and on the list of 28 or single pollutant \geq 250 tpy and not on list

If yes for 8(b), explain why this permit modification is not PSD.

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
01, 05-16, 18, 20-27, 32, 45, 48	PM_{10}	САМ
Facility	All	NESHAP 40 C.F.R. § 63 Subpart EEE
49, 57A, 57B	HAPs	NSPS 40 C.F.R. § 60 Subpart IIII
33	HAPs	NESHAP 40 C.F.R. § 63 Subpart ZZZZ
19	NO_X , $CO \& O_2$, SO_2	CEMs
34	HAPs	NESHAP 40 C.F.R. § 63 Subpart DD
37	Benzene	40 CFR 61 Subpart FF

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
40	CO, O_2 , SO2 and NO_X	CEMS
40	Mercury	40 CFR Part 61 Subpart E
40	Beryllium	40 CFR Part 61 Subpart C
50, 51, 52, 53	HAPs	40 CFR Part 60 Subpart JJJJ

10. UNCONSTRUCTED SOURCES:

Unconstructed Source	Permit Approval	Extension Requested	Extension Approval	If Greater than 18 Months without Approval, List Reason for
	Date	Date	Date	Continued Inclusion in Permit
N/A				

11. PERMIT SHIELD – TITLE V PERMITS ONLY:

Did the facility request a permit shield in this application? N (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Rule 18 requirement.)

If yes, are applicable requirements included and specifically identified in the permit? N/A If not, explain why.

For any requested inapplicable regulation in the permit shield, explain the reason why it is not applicable in the table below.

Source	Inapplicable Regulation	Reason	
34	40 C.F.R. Part 60 Subpart VVa	Not a synthetic organic chemical manufacturing industry	

12. COMPLIANCE ASSURANCE MONITORING (CAM) – TITLE V PERMITS ONLY:

List sources potentially subject to CAM because they use a control device to achieve compliance and have pre-control emissions of at least 100 percent of the major source level. List the pollutant of concern and a brief summary of the CAM plan (temperature monitoring, CEMs, opacity monitoring, etc.) and frequency requirements of § 64.

Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency	
01, 05-16, 18, 20-27, 32, 45, 48	PM/PM ₁₀	5 opacity exceedances in any 6 month period	

Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency
19	all	COM limit for more than two consecutive hours, operates outside the range of Continuous Pressure Differential Reading, or fails two consecutive stack tests

13. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

14. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the DEQ Air Permit Screening Modeling Instructions.

b) Non-Criteria Pollutants:

The non-criteria pollutants listed below were evaluated. Based on Division of Environmental Quality procedures for review of non-criteria pollutants, emissions of all other non-criteria pollutants are below thresholds of concern.

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Division of Environmental Quality has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Pollutant	TLV (mg/m ³)	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Ammonia	17.41	1.92	19.38	Ν
Arsenic Compounds	0.01	0.0011	0.018	Ν
Beryllium Compounds	0.002	2.2E-04	0.0244	N

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Pollutant	TLV (mg/m ³)	$PAER (lb/hr) = 0.11 \times TLV$	Proposed lb/hr	Pass?
Cadmium Compounds	0.01	0.0011	0.019	Ν
Chlorine	1.45	0.1595	16.02	Ν
Chromium Compounds	0.01	0.0011	0.046	Ν
Fluorides	2.5	0.275	3.73	Ν
Hydrochloric Acid (Hydrogen Chloride)	2.98	0.3278	16.48	N
Mercury	0.025	0.00275	0.026	Ν
Polycyclic Aromatic Hydrocarbons*	0.2	0.022	0.717	Ν
Lead	0.05	0.0055	0.056	Ν
Bromine	0.6536	0.0718	4.47	Ν
Selenium	0.2	0.022	0.46	Ν
Antimony	0.5	0.055	0.018	Y
Cobalt	0.02	0.0022	0.018	Ν
Manganese Compounds	0.02	0.0022	0.018	Y
Acetaldehyde*	45.0	4.95	0.000922	Y
Acrolein*	0.23	0.25	0.0001829	Y
Benzene	0.063	0.007	0.001844	Y
1,3-Butadiene*	4424.7	486.7	0.000047	Y
Formaldehyde*	15.0	1.65	0.02143	Y
Toluene*	188.0	20.7	0.00492	Y
Xylene*	434.0	47.7	0.000343	Y

*Emergency generators have not been modeled.

2nd Tier Screening (PAIL)

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Division of Environmental Quality to be one onehundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value	Modeled Concentration $(\mu g/m^3)$	Pass?
Ammonia	200-Annual 3200-1 Hour	4.37=Annual 254.3=1 Hour	Y
Chromium Compounds	0.1	0.00405	Y
Lead	0.5	0.004	Y
Bromine	6.536	0.51373	Y
Cobalt	0.2	0.00168	Y
Arsenic	0.1	0.001	Y
Cadmium	0.1	0.00384	Y
Mercury	0.25	0.00215	Y
Selenium	2.0	0.00396	Y
Manganese	0.2	0.00235	Y

15. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01, 05, 06, 26, 27, 30, 31	Grain Loading	0.002 gr/acf	Baghouse	99.9%	
07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 18, 20, 21, 22, 23, 24, 25	Grain Loading	0.005 gr/acf	Baghouse	99.9%	
19 and 40	MACT EEE Limits, Stack Testing	$SO_2 Max \%: 4.0$ Max Flow= 15 gal/min $SO_2= (0.24 \text{ lb})$ $SO_2/\text{lb S}(510 \text{ lb S})$	Afterburner Baghouse	99.9% 99.9%	Throughput higher than 20tph, SO ₂ = 0.18 lb SO ₂ /lb S Less than = 0.24

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
	(SO ₂), and Waste Analysis for VOC	supplied/hr)= 122.4 lb/hr SO ₂ = 241.1 tpy NO _x testing showed max to be much lower (29.62 lb/hr & 129.7 tpy) than permitted, but leaving it the same as last permit.			
32	AP-42 11.19.2 MSDS AP-42 3.3	Operation lb/ton Screen= 0.072 Crusher= 0.015 Loading/Unloading = 0.0004 Conveyor= 0.0077 2^{nd} Cut = 0.1% Sodium Beryllium Fluoride Based on Molecular Weight Ratio PM= 0.31 lb/MMBtu PM ₁₀ = 0.31 lb/MMBtu SO ₂ = 0.29 lb/MMBtu VOC= 0.36 lb/MMBtu CO= 0.95 lb/MMBtu NO _X = 4.41 lb/MMBtu	Primary Screen= Baghouse Crusher= Building Loading/Unloa ding= Baghouse Conveyor (7 drop off pts)= building	99.9% 80% 99.9% 80%	Portable Baghouse is operated by electric motor 8,760 hr/yr Max weight fraction Fluoride: 5.57E-01 g F / g material feed Beryllium: 6.87E-05 g Be / g material feed
33	AP-42 Chapter 3.3 for Combusti on	$\begin{array}{c} \underline{lb/MMBtu} \\ PM=0.31 \\ PM_{10}=0.31 \\ SO_{2}=0.29 \\ VOC=0.36 \end{array}$	None	N/A	Calculated at 1,000 hours of operation per year

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor Source Emission Factor (AP-42, (lb/ton, lb/hr, etc.) testing, etc.)		Control Equipment Efficiency	Comments
		CO=0.95 NO _X =4.41			
34	Table 2-9, 2-11 of EPA "Protocol for Equipmen t Leak & Emission Estimates" Nov, 1995		None	N/A	<u>Max VOC</u> <u>Concentration</u> 500 ppmv Light Liquid Valves= 42 Light Liquid Pumps= 14 Connectors= 112
35	Tanks Program	Organic Fuel Max throughput= 10,512,000 gal/yr Worst Case= 30% throughput Methyl Alcohol	Tank Vent	99%	(2)- 50,000 Gallon and (4)- 24,000 gallon Tanks
36	AP-42 Table 11.19.2	Max throughput = 200,000 ton/yr 0.0085 lb PM/ton 0.0035 lb PM ₁₀ /ton	None	N/A	Half of PM assumed to be PM ₁₀
42	AP-42 11.12.2	0.73 lb/ton PM 0.47 lb/ton PM10	Baghouse Filter Vent	99%	11.3 ton/hr (100 ton/day) # of drops: 2 Annual TP: 29,400 ton/yr
43	AP-42 11.12.2	0.73 lb/ton PM 0.47 lb/ton PM10	Baghouse Filter Vent	99%	25 ton/hr (100 tons/day) # of drops: 2 Annual TP: 9,000 ton/yr
38		PM/PM ₁₀ 0.01 grains/DSCF			

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SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
		Dioxin/Furan 1.05E-10 wt%			
48	Vendor- supplied Grain loading factor	Grain loading factor = 0.0028 grain/Dry CSF	Baghouse	99.9%	Blow Capacity: 300,000 ft3/hr 8760 hours/yr 1/7000 lb/grains
49	AP-42, Tier 3 Emission Factor	PM:0.087 g/HP-hr PM10:0.22 g/HP-hr SOX:2.05E-03 lb/HP-hr VOC: 0.06 g/HP-hr CO: 0.92 g/HP-hr NOX: 2.7 g/HP-hr			687 HP BSFC = 7000 Btu/HP-hr 500 hr/yr
50, 51	AP-42, Manufactu rer's Datasheet, Tier 2 Emission Limits	PM:0.04 g/HP-hr PM10:0.04 g/HP-hr SOX:5.88E-04 lb/HP-hr VOC: 0.45 g/HP-hr CO: 1.6 g/HP-hr NOX: 0.47 g/HP- hr	N/A	N/A	2820 HP 1020 btu/scf 18.12 MMBtu/hr 500 hours
52	AP-42, Manufactu rer's Datasheet, Tier 2 Emission Limits	PM:7.71E-05 g/HP- hr PM10:7.71E-05 g/HP-hr SOX:5.88E-04 lb/HP-hr VOC: 0.85 g/HP-hr CO: 0.95 g/HP-hr NOX: 1.17 g/HP- hr	N/A	N/A	950 HP 1020 btu/scf 9.92 MMBtu/hr 500 hours
53	AP-42, ManufactuNOX: 1.17 g/HP- hrAP-42, ManufactuPM:7.71E-05 g/HP- hrManufactuhrrer'sPM10:7.71E-05 g/HP-hrDatasheet, Tier 2g/HP-hrSOX:5.88E-04 Emissionlb/HP-hr		N/A	N/A	163 HP 1020 Btu/scf 1.01 MMBtu/hr

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
		CO: 0.95 g/HP-hr NOX: 1.17 g/HP- hr			
54, 55, 56	AP-42, 11.12.2 EF for pneumatic loading of cement elevated	PM: 0.73 lb/ton PM10: 0.47 lb/ton	Filter vent	99%	Hourly Tons Processed: 25 ton/hr SN-54, 55 # of Drops: 2 SN-56 # of Drops: 3
57A, 57B	Tier 4 AP-42 3.3	PM: 3.29E-05 PM10: 3.29E-05 SOX: 2.05E-03 VOC: 2.51E-03 CO: 8.22E-03 NOX: 6.58E-04			Engine Size * EmF 111 HP 500 hr/yr Brake-Specific Fuel Consumption (BSFC): 7000 btu/hp-hr

16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
19	EEE	EEE See Plantwide		
19	SO_2	6C		
		Sampling, Method 305 in 40 CFR		
		part 63, Method 25D in 40 CFR part		
		60, Method 624 in 40 CFR part 136,		
	Average	Method 625 in 40 CFR part 136,		
	VOHAP	Method 1624 in 40 CFR part 136,		
19	concentration for	Method 1625 in 40 CFR part 136,		
	off-site material	Method 8260 in "Test Methods for		
	streams	Evaluating Solid Waste,		
		Physical/Chemical Methods," EPA		
		Publication No. SW-846, Third		
		Edition, September 1986, as amended		

SN	Pollutants	Test Method	Test Interval	Justification
		by Update I, November 15, 1992, or		
		Method 8270 in "Test Methods for		
		Evaluating Solid Waste,		
		Physical/Chemical Methods," EPA		
		Publication No. SW-846, Third		
		Edition, September 1986, as amended		
		by Update I, November 15, 1992		

17. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
19	Various AFS systems	CEM	Continuous	Ν
19	CO Concentration	CEM	Continuous	Ν
19	PM Concentration	COM	Continuous	Ν
19	NO _X Concentration	CEM	Continuous	Ν
19	SO ₂ Concentration	CEM	Continuous	Ν
40	Various AFS systems	CEM	Continuous	Ν
40	CO Concentration	CEM	Continuous	Ν
40	PM Concentration	COM	Continuous	Ν
40	NO _X Concentration	CEM	Continuous	Ν
40	SO ₂ Concentration	CEM	Continuous	Ν
48	PM Concentration	СОМ	Continuous	N

18. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
19	Kiln Feed Rate	30 tons/hr on a 1 hour rolling average each	Monthly	Ν
33	Maintenance/Malfunction	N/A	Monthly	N
33	Hours of Operation	1,000 Hours per year	Monthly	Ν
35	Throughput	47,240,209 gal/yr	Monthly	N
36	Throughput	200,000 tons/yr	Monthly	N

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)
42	Throughput	29,400 tons/yr	Monthly	N
43	Throughput	9,000 tons/yr	Monthly	N
44	Throughput	17,500 tons/yr	Monthly	N
49	Hours of Operation	500 Hours per year	Monthly	N
54		125 tons/yr		
55	Tons Processed	1800 tons/yr	Monthly	Ν
56		5880 tons/yr		
57A, 57B	Hours of Operation	500 hours/yr	Monthly	N

19. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
32, 38, 49, 50, 51, 52, 53, 54, 55, 56, 57A, 57B	5%	§18.501	Inspector Observation
48	5%	CAM	Daily
01, 05, 06, 09, 10, 11, 18, 20, 21, 22, 26, 27	7%	САМ	Weekly
07, 08, 12, 13, 14, 15, 16, 23, 24, 25	10%	САМ	Weekly
19 and 40	20%	Guidance	Continuous
33	20%	Guidance	Inspector Observation

20. DELETED CONDITIONS:

Former SC	Justification for removal
N/A	

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21. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

Sauraa	Crown A			Emis	sions ((tpy)			
Name	Category				CO		H	HAPs	
Inaille	Category	FIVI / FIVI 10	\mathbf{SO}_2	VUC	0	NOx	Single	Total	
Five Diesel Fuel Storage Tanks 4000, 200, 200, 2500, 2000, and 1000 gallon capacity.	3			0.002					
Diesel Fuel Storage Tank (849 gal)	3			2.24E-04					
Laboratory Dust Collector and Vent	5	0.0001		0.22			0.22	0.22	
Lime Handling Fugitives (SN-29)	13	0.003							
Cooling Tower (300 gpm)	13	PM=0.22 PM ₁₀ =0.03							
Cooling Tower (7500 gpm)	13	PM=0.23 PM ₁₀ =0.03							
Cooler Conveyor Dust Collector	13	0.0001							

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Leachate Tanks	13			0.0001				
Loading Silos	13	PM= 0.19 PM ₁₀ =0.09						
Air Duct Systems	13	0.0001						
Initial Size Reduction System	13	0.0001						
Loadout Inline Dust Collector (SN-31)	13	0.08					2.97E-05	7.61E-05
Hot Water Heater #1	13	0.01	0.01	0.01	0.1	0.12	2.09E-03	2.18E-03
Hot Water Heater #2	13	0.01	0.01	0.01	0.1	0.12	2.09E-03	2.18E-03
Drum Sampling	13			0.7			0.7	0.7
Aluminum Oxide Tank w/BV	13	0.033						
Activated Carbon Tank w/BV	13	0.003						
Reagent #1 Tank (32.5% Urea solution)	13			0.15				
Bulk Solid Railcar Unloading	13	0.1	0.02	0.1	0.2	0.24	0.1	0.1
l otal		0.4594	0.02	1.1925	0.2	0.24	1.024211	1.0244

22. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
1016-AOP-R17

APPENDIX A - EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Major Source

Facility Name: Elemental Environmental Solutions, LLC Permit Number: 1016-AOP-R18

AFIN: 10-00004

\$/ton factor	28.14 Minor	Annual Chargeable Emissions (tpy)	734.512
Permit Type	Mod	Permit Fee \$	500
Minor Modification Fee \$ Minimum Modification Fee \$ Renewal with Minor Modification \$	500 1000 500		
Check if Facility Holds an Active Minor Source or Minor Source General Permit			
If Hold Active Permit, Amt of Last Annual Air Permit Ir Total Permit Fee Chargeable Emissions (tpy) Initial Title V Permit Fee Chargeable Emissions (tpy)	-0.05		
HAPs not included in VOC or PM:	Chlorine, Hydrazine, Chloride, Phosphine, Tetrachloride	HCl, HF, Methyl Chloroform, M Tetrachloroethylene, Titanium	lethylene

Air Contaminants:

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

					Permit	
					Fee	Annual
	Check if			Change	Chargea	Chargeab
	Chargea			in	ble	le
	ble	Old	New	Emissio	Emissio	Emission
Pollutant (tpy)	Emission	Permit	Permit	ns	ns	S
РМ		72.9	72.25	-0.65	-0.65	72.25
PM_{10}		71.8	71.7	-0.1		
PM _{2.5}		0		0		
SO ₂		242	242.2	0.2	0.2	242.2
VOC		36	36.2	0.2	0.2	36.2
СО		108.2	108.8	0.6		
NO _X		223.4	223.6	0.2	0.2	223.6
Lead	✓	0.212	0.212	0	0	0.212

Revised 03-11-16

Arsenic Compounds		0.09	0.09	0		
Beryllium Compounds		0.09	0.09	0		
Cadmium Compounds		0.22	0.22	0		
Chlorine	>	41.15	41.15	0	0	41.15
Hydrochloric Acid	>	42.3	42.3	0	0	42.3
Chromium Compounds		0.09	0.09	0		
Dioxin and Furans		3.50E- 07	3.50E- 07	0		
Fluorides	>	6.49	6.49	0	0	6.49
Mercury		0.12	0.12	0		
РАН		2.99	2.99	0		
Bromine		11.61	11.61	0		
Selenium		0.21	0.21	0		
Ammonia	>	70.11	70.11	0	0	70.11
Single Organics		11.62	11.62	0		
Total Other Organics		62.78	62.8	0.02		
Benzene		0.26	0.26	0		
Antimony		0.09	0.09	0		
Cyanide		3.60E- 04	3.60E- 04	0		